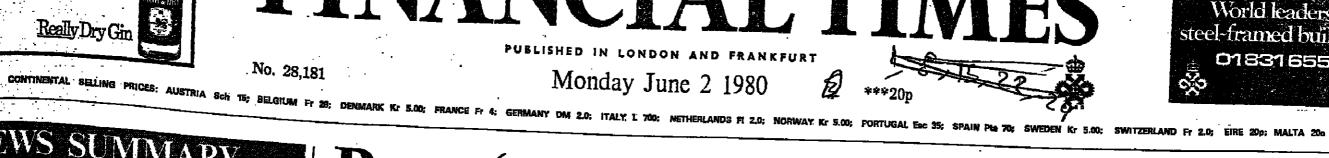
Monday June 2 1980



CONDER World leaders in steel-framed buildings 018316552

NEWS SUMMARY

REMERAL BUSINESS Mideast Barclays veto urges threat by early cut Carter in MLR BARCLAYS BANK

says an OECD survey. Back

week, with the French franc

retaining its place as the most

improved currency from central rates despite an easier tendency

in domestic interest rates. The Dutch guilder was again

the second most improved cur-rency, followed by the Belgian

although it remained well with-

in its maximum permitted

MAY 30, 1980

GRID

o warred

ECU Divergence

The charts show the two constraints on European Monetary System exchange rates. The upper grid, based on the weakest currency in the system, defines the cross rates from which no currency (except the fire) may move more than 2's per cent. The lower chart gives each currency's divergence from its "central rate" against the European Currency Unit (ECU), itself a basket of European currencies.

• NIPPON ELECTRIC Cor-

poration, the Japanese electronics group, will decide by the end of July whether to

locate its £20m microchip plant

in Dublin or in Livingstone New

• BRITISH concern over the

number of sub-standard Greek

merchant ships will be raised

by Mr. Norman Tebbit, Trade Under-Secretary, when he visits Greece this week. Page 4

• TUC is likely to use firm

pressure on the electricians'

and engineering workers' unions to relax their stand in

the dispute over laggers at the

Isle of Grain power station site

• OIL COMPANIES in the UK

sector of the North Sea could be employing 11,000-13,000 workers by 1987, compared with about 8,600 at present, says a

• SOUTH WEST Consolidated

Minerals, the wholly-owned sub-sidiary of Dundonian, is offering

5.5m shares at 50p each to raise £2.75m for mineral exploration

and development in south-west

purchase of Fairey Holdings from the National Enterprise

until the Fairey management

makes a new forecast of current

year profits. Page 20

in Kent. Page 8

survey. Page 4

COMPANIES

Town, Scotland. Back Page

divergence.

EUROPEAN Monetary

Carter last night renewed its pressure on the Government for an early cut prestened to veto in the UN Security Council any Middle
East initiative by Western
Europe because it would underin interest rates, warning that it could otherwise lead to an unprecedented monetary tight-ness, Back Page mue the peace process started by the 1978 Camp David by the 1978 Camp David PAY RISES in leading grounds.

But the President coupled tries, except the U.S. and

is outspoken warning, made in Canada, are keeping pace with selevision interview, with the or even exceeding inflation, pope that such a clash with says Western alties could be avoided. Page

fack Page
In Damascus, the largest
palestinian group El Fatah System saw little change last aded its ten-day congress with call to intensify the armed gruggle against Israel. Page 2

Gandhi set to win

Indian Prime Minister Indira Gandhi's Congress (I) Party vas poised for sweeping vic-pries in state elections which franc which rose above the Irish punt. The Danish krone was generally weak, but the Italian lira was the weakest, have cost 54 lives in political violence. Page 2

Cossiga pressure

Pressure on Italian Prime Minister Francesco Cossiga is intensifying and may yet lead in his resignation although he has been cleared of allegations of helping a terrorist suspect escape arrest. Back Page; lialian economy, Page 2

Callaghan happy

Labour leader James Callaghan said the party's special one-day conference was "well worthwhile. Others believe it may have signalled a turning point in the Right's fight to regain centrol of the party. Back and Page 6; Politics Today, Page 18

irish flights hit

Aer Lingus, the Irish airline, had to cancel half its flights hetween the UK. Ireland and America because of strike by Irish airport workers.

Police raids

Police said a major pornography ring was smashed at the weekend after raids in the South-east netted £300,000 worth of books, time and tapes.

Rebellion talks

British and French Ministers neet in Paris today to discuss ways of ending the rebellion on the island of Espiritu Santo in Anglo French New Beorides. Page 2

Bond Street blast Srelland Yard's anti-terrorist

squad sifted through the wreckage left by the bomb blast at the Kuwait oil company's offices in New Bond Street. London. In Brussels, a bomb exploded in the grounds of the Saudi Arabian embassy.

Coral charges

Three more Coral Leisure Group casino employees and three former employees have charged with offences under the gaming and theft Acts. In all, 32 have been charged since police raised the goup's London casinos last

Grave business

Tour of a graveyard is just one " several attractions devised by Merseyside City Council to draw thousands of holidaymakers to Liverpool.

Briefly . . .

Weekly £100,000 premium bond

Prize was won by No. 1SL

917647 (Oxfordshire) and the

£50,000 prize by No. 29PK

\$\text{SO}\$ PEARSON and Sons' £24m £50,000 prize by No. 22RK 845275 (Gwynedd).

East German border guards Board will not be completed seized a West Berlin boy who scrambled over the Beriin Wall to recover his football.

___ CONTENTS

Editorial commen	t: EEC	conferenc
Dudget nurses	18	Castro's C
Lombard: U.S. exp	eriment	cigar a w
!n Thatcherism.	Samuel	Manageme
Brittan	16	Sperry
Surveys:	. •	over
Ecuador	26-31	Tin Minin
Canadian Banking	9-12	right on
Politics: Labour's	special.	issue

luba: Down to one veek 19 ent: Univac's take-

..... 15 ng: Paul Cheesethe new share

iziding Notes izinesaman's Dry. Money & Exchanges mcmal Diary

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Bonn 'cannot find cash' to pay for EEC budget deal

BY JONATHAN CARR IN BONN

HERR HANS MATTHOEFER, cuts in the sums allotted to the West German Pinance several Ministries.

Minister, has warned that he Herr Matthoef does not see where Bonn can find the money to pay for its share of the deal to solve Britain's EEC budget problem. In a statement yesterday Herr Matthoefer said he was determined not to increase state borrowing and he claimed he could not identify possible

. No. 28,181

savings elsewhere. On Wednesday the Bonn Cabinet is to discuss last week's EEC agreement and the Finance Minister has the right of veto. Herr Matthoefer's statement came as sharp discord between the Government coalition par-ners emerged over the Brussels

While leading members of the liberal Free Democrat Party. including Herr Hans-Dietrich Genscher, the Foreign Minister. supported the agreement, senior Social Democrats said the bill Bonn would have to pay was too high.

Herr Matthoefer, a Social Democrat, warned that those Ministers who agreed with the Brussels compromise - which will cost West Germany an extra Genscher said the ability of the DM2.6bn (£623m) in 1980 and Community to act together at a ously have to say where the was at stake. extra finance was to come from.

He noted that a West German supplementary budget for 1980 Minister, ridiculed SPD tactics of nearly DM 2bn had recently in speaking out on the budget been approved, involving heavy before it became clear whether

Herr Matthoefer has, effect, tossed the ball back into the court of his Cabinet col-leagues—including those members of the FDP who, like Herr Genscher, are describing the Brussels accord as a victory

He is not wholly ruling out approval of the package, des-pite earlier suggestions this weekend from the SPD that this was so.

He is insisting not only on cuts but on a clear statement of the will to reform the costly Common Agriculture Policy — a direct challenge to Herr Josef Ertl, the FDP Farm Minister.

Tempers in the coalition rose sharply on Saturday after Herr Herbert Wehner, the SPD's powerful Parliamentary floor leader indicated that Herr Matthoefer had rejected the Brussels accord. Herr Wehner said German action for European unity was one thing but to be "milked like a cow" was another. In a sharp reaction, Herr

1981 together-would simultane- time of international tension



Herr Matthoefer . . . no extra borrowing

the British Cabinet would accept the Brussels compromise.
These exchanges bear all the signs of the campaign for the General Election in October, with the FDP seeking to project itself as an independent force and the SPD showing how care ful it is being with taxpayers

They also reflect a genuine division of view on the British budget issue within the West

Most Tory MPs to back Mrs. Thatcher's tactics

will receive overwhelming support from Conservative MPs in the Commons following the criticism from Labour leaders expected decision by the Cabinet today to endorse the budget settlement.

broad balance in Britain's contributions and receipts, is regarded by Ministers as the best deal that could be obtained and appreciably better than most had expected after the sour end to the Luxembourg summit.

British officials insisted last night that the complex proposals were still being scrutinised by Ministers, and minds were not yet made up. But no one thought there was a

serious prospect of rejection. The agreement will be widely regarded as another triumph for Mrs. Thatcher and Lord Carrington, the Foreign Secre-tary, and a vindication of the brutal negotiating tactics that took the EEC to the brink of collapse.

Mrs. Thatcher is not expected to announce the Cabinet decision personally. This will be left to Lord Carrington in the Lords and Sir Ian Gilmour,

MRS. MARGARET THATCHER culture, on the results of his Election Brussels negotiations.

at the failure to obtain the full of EEC membership at a time £1bn refund and at the decision udget settlement.

to allow the 5 per cent increase
The agreement, although it in EEC farm prices, but the falls some way short of Mrs. significant factor domestically Thatcher's original demands for will be the degree of enwill be the degree of en- pose that the trend towards a thusiasm for the deal within the Government and the Conservative Party.

The issue of Britain's budget been ominous signs of discomfort among some pro-market Mr. Peter Shore, shadow fort among some pro-market MPs at Mrs. Thatcher's uncompromising negotiating tactics.

The scale of her success will now be welcomed by both proand anti-Marketeers but there because nothing had been agreed and anti-marketers out their are already signs of anxiety at the three-year time scale of the agreement. Mrs. Thatcher's intention had been to reach a trying to arrest payments which permanent solution in order to will then be running at some take the issue of the Market £1.5hn a year," he said. out of UK politics, but this has

his deputy, in the Commons. Party facticians are alarmed at There will also be a Commons the prospect of further bruising There will also be a Commons statement from Mr. Peter negotiations in 1983, probably Walker, the Minister of Agri-

The Labour Party could be poised to take maximum political advantage of the unpopularity

when it could be difficult for Mrs. Thatcher to match their There is no reason to sup-

policy of withdrawal within the Labour Party will be halted or slowed by the Budget agree ment, which many Labour policontribution which has so ticians regard as a sell-out. It damaged relations with other was significant, however, that was significant, however, that members of the Community, has Mr. James Callaghan, the Labour also threatened to divide the leader, did not take the oppor-Tory Party with its recent tunity to attack the deal when history of strong support for he addressed the special Labour British membership. There have

Foreign Secretary, forecast yes-terday that the issue of the Common Market could feature prominently at the next election

not been done.

The underlying difficulty of duce a "windfall" for entire the Common Agricultural Policy the taxpayer or consumer. Any remains to be tackled, and Tory cash saved would simply be allocated to reducing public one of the Govern-There is no suggestion that an

defining the turnover criteria

used in the new laws in spite

of the fact that this is a relatively standard definition in

existing competition legislation.

First competitive practice inquiries are delayed

BY DAVID CHURCHILL, CONSUMER AFFAIRS CORRESPONDENT THE FIRST batch of investiga-

into

The main reason for the delay recommendations. is problems over drafting the into force the main sections of the Competition Act, which became law at the beginning of

that the Government may be deliberately dragging its feet over bringing in the new and wide-ranging powers because of pressure from some Ministers. It is argued that the new

investigations into companies competitive behaviour may impose too great a burden at a time when industry is facing an economic recession. The new Competition Act gives the Office of Fair Trading a formality, are now taking con-

the power to investigate any

anti-competitive practice carried

out by a single company.

The office can then refer the anti-competitive practice to the Monopolies and practices by individual com- Mergers Commission for a sixpanies, which were expected month formal investigation. The to have been announced this Secretary for Trade then has the veek, have now been delayed power to force companies to for at least another four weeks. implement the commission's

moves announced by the Government after the General Election last year. In spite of the fact that the legislation was origin-But there is also speculation ally kept to only 13 short clauses so it could be speedily introduced, the Competition Bill did not become law until early April this year.

It was then announced that no investigation into individual companies would be started until certain enabling Orders

had been drafted and laid a number of potential cases for before Parliament. This was expected to happen this week. However, these Orders, which marketing, and retail opticians. had been expected to be merely

It is understood, for example,

siderably longer to draft.

The Government, however, has not so far hesitated to use the new Competition Act to announce investigations into These new competition powers enabling Orders which bring were one of the first major three public sector bodies. These are British Rail's commuter services in the South-east, the Severn-Trent Water Authority, and the Central Electricity

Generating Board. Under the new Act, the Trade Secretary can refer such public bodies bodies directly to the Monopolies Commission while private sector investigations. referred by the OFT, needs the

sanction of the enabling Orders. The OFT is already reviewing It is also likely to investigate allegations by some retailers of manufacturers refusing to supply them with goods because that there is disagreement over of their cut-price policies.

FT SURVEY OF BUSINESS OPINION

Further industrial iob loss predicted

By David Marsh

HIGH WAGE costs and the leepening recession will force British industry to make substantial cuts in its workforce over the next 12 months.

The prospect of a further rapid rise in unemployment, together with continuing pessimism in the corporate sector over the outlook for orders, output and export sales, are the main features of the latest Financial Times Survey of Business Opinion published this morning

With high interest rates and a strong pound still major factors depressing confidence, companies have been cutting stock levels in line with the expected reduction in demand.

However, destocking may continue in coming months. The index of optimism about general prospects rose slightly

for the second successive This was because one of the sectors surveyed last month electrical engineering

industry—was somewhat more confident that increased defence spending would boost orders. The other two groups surveyed—stores and consumer services, and consumer durables -were more pessimistic about

Output

the outlook.

Despite the rally of the last two months, the index of optimism remains around its lowest for more than four years.

Companies reported that the order picture remained sluggish, and there was a further fall in their assessment of output levels during the next 12

wage costs were the main factors behind companies' plans to cut staff. The index covering expected labour requirements, which was already severely depressed, fell sharply to a record low. The groups surveyed expected

hourly wage rates to increase by around 171 per cent during the next 12 months.

Other costs are expected to rise less steeply, but a build-up in inflationary pressures is indicated by a fresh rise to just over 14 per cent in the expected level of price increases during the next 12 months. Details Page 8

Recession is serious, says Carter

BY DAVID BUCHAN IN WASHINGTON

PRESIDENT CARTER conceded yesterday that recession had come to the U.S. "quicker and steeper than we thought," but said that inflation and interest rates were falling and that this would help recovery. Government strategy had not changed.

he said.

Mr. Carter was speaking two days after the U.S. index of indicators, leading economic indicators, designed as a measure of future trends in the economy, showed its biggest-ever monthly drop of 4.8 per cent for April. With this and other evidence of a slump in economic activity, he admitted that the recession looked

But this should not mean a change in the basic anti-infla-tion strategy. The Federal Government had enough programmes, or would have enough if Congress adopted recent presidential proposals, to help the poor weather the hardships of a recession. Mr. Carter mentioned subsidies to build low-income housing, job creation, and extra aid for laid-

off car workers. The Government is being closely watched by political and financial analysts for signs that it is diluting its counter-inflation strategy in the face of a recession more serious than ex-pected, and boding little good for the President's re-election this November.

In these early days of recession, Mr. Carter has so far eschewed any major plan to buoy up or stimulate the economy. A tax cut was out of the question this year, he said, but if the recession proves worse than anticipated, preparations for a tax reduction in 1981 could be made.

Mr. Ronald Reagan, the President's probable Republican challenger, is sure to hound Mr. Carter for his stewardship of the economy. In these cir- bring the general inflation rate cumstances, the Government may find it hard to resist the political temptation to under-

Mr. Carter . . . quicker and steeper take some pump-priming economic measures. Inflation strategy in the in-dustrialised world will figure high on the Venice economic summit's agenda later this month, and one of the benefits the Administration hopes to reap from that meeting is the demonstration to the U.S. public

that inflation is common to all Western countries, who all agree it must be curbed before sound growth can begin again. CARTE R-5 Mr. Carter made clear his faith in "the corrective forces built into" the U.S. economy. which were already operating to ensure that the slump would be relatively shortlived. Interest rates were falling fast, and this would soon mean a pick-up in demand for houses and cars.

the two hardest hit sectors. The President said he could virtually guarantee that the fall in interest rates would soon

Lombard: U.S. Thatcherite experiment, Page 16

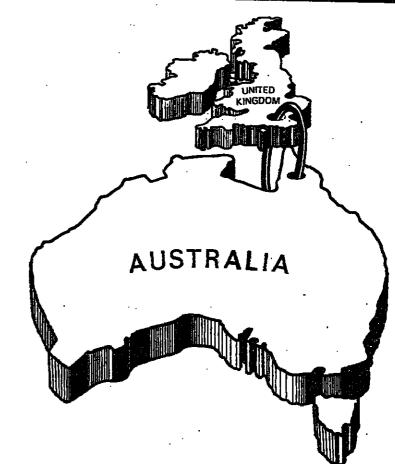
Oil import fee problems

PRESIDENT CARTER faces to go to the Venice summit considerable problems—some of his own making—in getting through Congress a revised refusing to approve the oil budget and his plan for an oil import fee. He has enraged many Capitol Hill leaders by backing a successful revolt in the House of Representatives last Thursday against the 1980-81 budget resolution. Angry Senators are now threatened to vote down his oil import fee.

The President may have

import fee.
Opposition to the fee, which would be felt by U.S. consumers

as a 10 cents a gallon tax increase on petrol, has been building up in recent weeks and is now intertwined with Mr. Carter's difficulties with Con-gress over the 1980-81 budget. budget.



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Mrs. Gandhi poised for election victory

BY K. K. SHARMA IN NEW DELHI

MRS. INDIRA GANDHI's Con-killed on Saturday. gress (I) Party was poised for sweeping victories in almost all the nine states where elections were held last week. Early results yesterday indicated Mrs. Gandhi's party was winning in all states except Tamil Nadu, in the south, where the Congress (I) and its allies were trailing a local party, the All-India Anna Dravida Munnetra Kazagam.

The results in Tamil Nadu cannot affect the results in the other states, especially in the politically important Uttar Pradesh and Bihar, which lie in the key Hindi-speaking Gangetic

paigning led to several deaths themsel and nearly 30 people were region.

states' legislatures to be dissolved because of the poor performance there by non-Congress (I) parties during the parliamentary elections in January. She claimed the parliamentary election results showed other parties in power in the states had lost their mandate.

Final results will be known this evening, but Congress (I) is fairly certain to form the Governments in at least eight

Polling in the nine states try. Her main opponents are ended on Saturday, in the most now the Marxists who are in violent elections ever held in power in West Bengal and Tri-India. Clashes during the campura and have entreuched

HK prime rate cut again

FOR THE second week in suc the record 16 per cent prevail-cession, Hong Kong's Exchange ing until a week ago. The Banks Association, the local second cut came as a surprise, 1.5 per cent cut in prime lend-

Mrs. Gandhi ordered the nine

Mrs. Gandhi is thus set to

rate setting cartel, announced a as at the time of the first it was said the banks were only "fine tuning" the rate to take account of market conditions, and there The rate is now 13 per cent, would be no let-up in the use of a reduction of 3 per cent from interest rates to battle inflation.

Russian bid to conciliate Yugoslavia

By David Satter in Moscow THE SOVIET UNION yesterday reaffirmed its respect for Yugoslavia's independence but said the dominant tendency over the past 25 years has been for the two countries to become increasingly united.

The Communist Party newspaper, Pravda, said: "The Soviet people want, and have always wanted, to see Yagoslavia as a single, united. prospering country, successfully building socialism."

The pewspaper added, however, that since the 1955 Belgrade declaration, which ended seven years of hostility after the late President Tito decided to withdraw from the Comintern, the two countries had been growing "closer and more unified."

The Pravda article was the first major comment on Soviet-Yugoslav relations since President Tito died last

Record deficit for Denmark

By Hilary Barnes in Copenhagen DENMARK'S first - quarter current balance of payments established a new quarterly record deficit, of DKr 6.6bn (£508m). This was almost twice the DKr 3.5bn deficit in the first quarter of last year, and compares with a DKr 15.6bn deficit for the whole of 1979, also a record.

Italian plea for coherent economic strategy



Sig. Carlo Clampl: A little time left

IN A bleak assessment of the country's economic health, Sig. Carlo Ciamoi, Governor of the Bank of Italy, has pledged a tight monetary policy to fight stability of the lira. In his first report as governor

to the bank's annual meeting, Sig. Ciampi warned that the failure to produce a coherent economic strategy now meant that Italy was throwing away the benefits of the recovery since the last major crisis of

To underline his words, the Central Statistics Institutes (ISTAT) yesterday announced a provisional trade deficit of L1,510bn (£770m) in April.

This brings the deficit for the first four months of 1980 to L5,288bn (£2.7bn) compared to one of L4,725bn for the whole of

The governor's message

Business has been calling increasingly openly for a devaluation of the lira to provide a competitive breathing space. But such action has been repeatedly rejected by ministers. Inflation back at around 20 per cent. was attacking Italy with renewed venom, said Sig. Ciampi.

"The competitiveness of our products is declining. The public sector deficit is eating away available resources. The balance of payments is again in deficit Dangerous company crises are dragging on and growing worse, while new ones

"The problems of companies, the familiar plea of the Bank whether public or private, canof Italy—never heeded by polinot be tackled by financial ticians—that monetary policy means alone. These can be use could not alone put right struc- ful when the basic problems of tural problems in the Italian output have been settled. But otherwise, subsidy piles upon direct taxes. The idea has been subsidy, and waste upon waste, aired by other leading economic

> Sig. Ciampi said that industrial productivity in Italy had risen only 3 per cent over the past five years, less than in any of Italy's major competitors,

still more difficult and costly to

petitiveness of Italian industry

"scala mobile" system of automatic wage indexation be changed to exclude from the system those price rises due to government increases in inall in the klasion of curing the figures here but has always met problem but in fact making it a firm refusal from the trade

Sig Ciampi said Italy still had a little time left to put things right, and drew hope from the resilience and vitality of small and medium-sized industry and the "submerged" economy

In recent months, domestic which had developed in part as inflation has pushed up the price of manufactured goods so fast that the interpational long-term solution nor generate had dropped by 7 per cent the industrial overhaul Italy

Anglo-French rivalry breeds revolt in New Hebrides

several months on the New Hebrides island of Espiritu Santo has now deteriorated to the point of open rebellion, only a few weeks before independ-

Mr. Walter Lini, chief minister of the British and Frenchruled New Hebrides has appealed to the UN for help in dealing with the rebellion. About 800 plantation workers armed with bows and arrows

the island, on Wednesday. They

THE TROUBLE brewing for want the island to be a separate entity when the New Hebrides becomes independent on July 30 Three boatloads of foreigners

have left the rebel island and one vessel, with 60 people, has reached the island of Malekuia, about halfway between Espiritu Santo and Efate, where the capital, Vila, is situated.

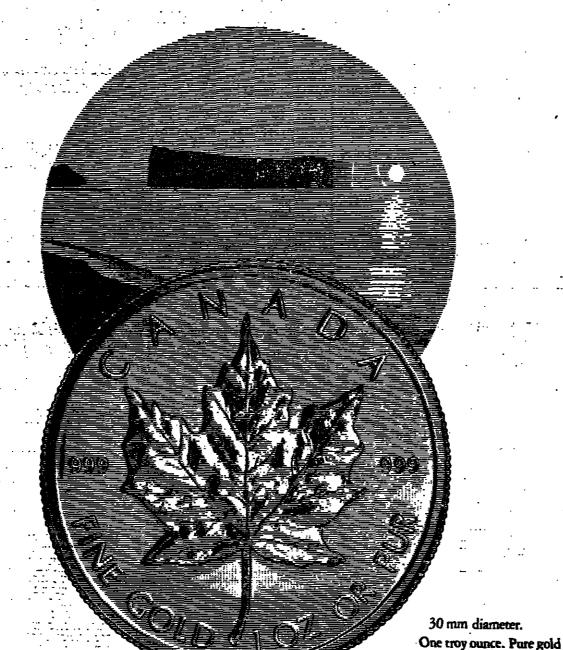
The trouble is ascribable to the inability of the joint colonial powers to co-operate to maintain the rule took over Government facilities of law, and French officials' in Santo, the largest town on antipathy to the ruling Vanuaaku Party and its leader.

Only in such conditions could the bizarre event on Espiritu Santo have come about. The island's independence movement is a strange amalgam. The leader is an English-speaking mixed-blood named Jimmy Stevens, From a bush headquarters he runs a semico-operative semi-cult organisation which has attracted many

Mr. Stevens is essentially against any authority which interferes with his own sway essentially represents mission-educated and town-based people. At talks last year on the independence constitution,

regional as well as national

to the Vanuaaku Party, which officials, however, torpedoed an electoral commission set up investigate the attentions by failing to attend. Meanwhile, Mr. Stevens declared Espiritu France pressed for semi-Santo to be the independent autonomy for Espiritu Santo state of Vemerana. The district and another island, Tanna, commissioner in Santo was run Santo to be the independen which also has a big French- out of town, and government speaking presence. It was offices were occupied for a fer agreed that both islands have days. The new Vanuacku Govern regional assemblies. But in ment had no police at its diselections last November, the posal. The French balked at a Vanuaaku won majorities in the British proposal to use the 60man joint mobile police force



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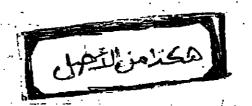
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Arafat re-elected as leader of Fatah

BY IHSAN HIJAZI IN BEIRUT

MR. YASSER ARAFAT has been re-elected leader of the mainstream Palestinian guer-rilla group, al-Fatah, and com-mander-in-chief of its forces. He heads a 15-man central sation. committee elected by Fatah's 530-member congress which ended an 11-day session in Damascus yesterday. The congress elected a 65-man revolu-tionary council to be Fatah's

policy-making body. Dr. Nahil Shaath the chairman of the congress, said the congress, which constitutes Fatah's power base, decided to increase the armed struggle against Israel until "all" Palestine had been liberated. Reports from Fatah's first congress in nine years indicated a

The new central committee includes five new members, the ten serving are

retained. They are Mr. Arafat's closest aides, and had helped him create Fatah in 1965 and make it into the largest and most powerful guerrilla organi-

The committee includes Salah Khalaf, better known by his code name of Abn Iyad, and generally regarded as the second-in-command after Mr.

Abu Jihad, whose real name is Khalil al-Wazir, was re-elected deputy commander of Fatah's 10,000-man force known as Al-Astfa. The guerrilla movement's top

diplomat, Mr. Farouk Kaddoumi, who heads the political department in the Palestine Liberation Organisation, was elected Fatah's

Mr. Hani al-Hassan, the PLO's representative in Tehran, and Mr. Rafiq al-Natche, the head of the PLO office in Saudi



The 15 men forming the leadership are a combaniation of militants and moderates. Some, gress in nine years indicated a Urganisation, was militant mood. The participants accretary, were from 80 Arab and foreign. Fatah's new leaders include prefer to give priority to milicountries as well as the Israeli-Brig. Saad Sayel, the chief of tary action against Israeli the PLO's military "operations others, like Mr. Khaled all the PLO's military "operations others, like Mr. Khaled all the PLO's military "operations" others. Hassan, advocate widened din lomatic and political activity for winning support, particularly in

Anger as Begin takes on defence portfolio.

By David Lennon in Tel Aviv

THE ISRAELI Cabinet erupted in bitter exchanges yesterday as Mr. Menahem Begin, the Prime Minister, abandoned his planned Cabinet reshuffle and decided to appoint him-self Defence Minister in place of Mr. Ezer Weizman who

resigned last week. he hard-line Agriculture Minister, Mr. Ariel Sharon, criticised Mr. Begin for having considered appointing the Foreign Minister, Mr. Yitzhak Shamir, who has little military experience, as the new Defence Minister.

Mr. Sharon, a reserve general, who wants the post for him-Minister would not have even considered such an appoint-ment if he realised the seriousness of Israel's security problems. These included mild-up of Soviet weapons in Syria and Libya and the current unrest in the occupied

territories, he said. The Agriculture Minister said the defence portfolio was too important to be used as a political reward and de-manded that the job be given to him as the most experi-enced military man in the Cabinet.

Mr. Begin retorted that in many countries it was the practice not to appoint an officer or former military man to the post of Defence Minister. He then asked Mr. Sharon if he had already "leaked" the letter on this issue which he had sent to the Prime Minister last week.

Mr. Sharon snapped back that Mr. Begin was once again making vengeful comments just as he had in his wild attack on Mr. Weizman last

When the row died down the Cabinet approved Mr. Begin's decision to seek Knesset approval today for his continuing to hold the defence portiolio until a new minister can be appointed.

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12in x 30in x 35in wide x 400 hp Four High Reversing Mill 5in x 12in x 10in wide variable speed Four High Mill 3.5in x 8in x 9in wide variable speed Four High Mill 13.31 x 311 x 311 wide variable speed Four Figh Mill 10in x 16in wide fixed speed Two High Mill 10in x 12in wide fixed speed Two High Mill 6in x 16in x 20in wide Four High Mill 150 x 100 mm x 15 hp Two High Tape Rolling Mill 110 x 100 mm x 10 hp Two High Tape Rolling Mill

2) WIRE FLATTENING AND NARROW STRIP ROLLING MILL

Two stand by RWF IDin x 8in rolls-3) DECOIL AND CUT-TO-LENGTH LINES 1500 mm × 3 mm × 10 Ton and 15 Ton Coil 7500 mm x 3 mm x 5 Ton Coil 400 mm x 3 mm x 2 Ton Coil

4) SLITTING LINES 1220 mm x 3 mm x 5 Ton C 920 mm x 5 mm x 10 Ton Coil 920 mm x 2 mm x 2 Ton Coil

300 mm x 1.5 mm x 1 Ton Coil WEDNESBURY MACHINE CO. LTD. Oxford Street, Bilston Tel: 0902 42541/2/3 - Telex: 336414

WICKMAN 6 SP AUTOMATIC 13" rebuilt to maker's limits WICKMAN 6 SP AUTOMATIC 1 " rebuilt to maker's limits WICKMAN 6 SP AUTOMATIC 25" recon, to maker's limits 200 TON HYDRAULIC PRESSES

200 TON MECHANICAL PRESS 8in stroke, as new WIEDEMANN 100 TON TURRET PRESS capacity 120m x 60 ROLLING MILL 11 in x 11 in wide Two High reconditioned

HATEBUR PKE 13 COLD FORMING PRESS PFAUTER GEAR HOBBER P250 RECONDITIONED MEDART BAR PEELER 4in RECONDITIONED WICKES CRANKSHAFT LATHE MX4 RECONDITIONED CAZENEUVE LATHE MODEL HB725 28in swing x 40ip re

MALMEDIE 4-station COLD HEADER QPB8 excellent ROLLS TOOLS LTD.

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BOND DRAWINGS

L REED INTERNATIONAL LIMITED

DFIs. 100,000,000 171% Bonds 1974 due 1980/1981 2 REED INTERNATIONAL LIMITED

DFIs. 35,786,000.— 171% Bond-1976 due 1930 1989

Washington retains quotas on clothing from China

THE U.S. is to retain unliateral thought sufficient progress had ment regulating world trade in diotas on clothing imports from been made for formal talks to textiles, and the present uni-thing following the failure of be held last month in Washing-lateral restraints have been

China is already the fifth largest supplier of textiles and clothing to the U.S. and is soon expected to overtake Japan, which has for some time been shipping lower quantities. The Chinese have been seeking substantially improved access amounting in some cases, U.S. officials claim, to a doubling or fripling of imports of some

first introduced last year after a deal with the resultant prosimilar failure to reach agreement, and it would seem that port control system. neither side has been prepared to change its position since then. Informal talks aimed at as though it were a signatory single supplier. We cannot take narrowing the gap were held in to the GATT Multifibre on another Hong Kong. South

last month's talks to secure a ton. These have now been bilateral deal. suspended with no date set for resumption

American negotiators have the reluctance of the Chinese to compromise. They speculate the unilateral restraints. that the Chinese may have overestimated the bargaining power of their customers — the U.S. importers. Another view is that China may even prefer to allow the U.S. to set unilateral levels rather than become involved in The unilateral quotas were the complications of a bilateral blems of administering an ex-

narrowing the gap were held in to the GATT Multifibre on another Hong Kong. South Peking in April and it was Arrangement (MFA), the agree Korea or Taiwan," he said.

drawn up in accordance with MFA provisions. And the U.S. has emphasised that if China was prepared to sign a bilateral expressed some puzzlement at deal it would be accorded more generous treatment than under

The access already given to China in the U.S. recognises their absence from world trade for a number of years. "Indeed before taking unilateral action we had already allowed China's trade to grow to the highest level of any country before requesting consultations." Mr. Reiter Webb, chief U.S. Textile Negotiator commented. As it is, U.S. officials say Chinese cannot go from China is already being treated nowhere to being our largest

RSV wins £174m U.S. coal deal

BY CHARLES BATCHELOR IN AMSTERDAM

RLIN - SCHELDE - VEROLME of between 60 and 150 centi-(RSV), the Dutch engineering metres working up to depths of the companies involved in the and shipbuilding group, has won a F1800m (£174m) order to deliver coal excavation machinery to a U.S. mining group. The machines, which have been developed by RSV, allow high levels of recovery from thin seams which are normally uneconomic for existing equip-

The Dutch group is also a minority shareholder in the U.S. equipment leasing and mining companies. It has quarter shares in the thin seam Miner Leasing Corporation and in the Coal 25 and 50 per cent respectively.

Delivery will start at the end of this year with the dispatch of five machines, rising to 25 in 1981 and between 236 and 500 machines in subsequent years up to 1985. They will be made at RSV's WF-RDM subsidiary using components supplied by other RSV divisions as well as outside companies.

used in opencast conditions to communique concerning the work the many thousands of first bi-annual meeting in miles of "high walls" in Kentucky, Tennessee, West Virginia tion agreement between the two tures involving Italian refinery and Virginia. It can recover up nations signed in December. capacity and Venezuelan oil. to 85 per cent of coal in layers . Among other agreements con- AP-DJ

tional mining systems, and it is two 75-seat F-28 Mark 40000 clean enough not to require washing. Each machine washing. Each machine can mine up to 200,000 tonnes of coal a year giving potential capacity for the entire project 40m tonnes.

RSV estimated that the new equipment was four years ahead of anything available elsewhere. Delivery of the new machines

70 metres. . thin seam project.
Six times more coal can be Fokker, the Dutch aerospace

passenger jet aircraft to East West Airlines of Australia. The value of the order, including spares, is Fl 23m and delivery is due to take place in September, 1981, and mid-1982. East-West has also taken an option on a further three aircraft. The order brings the number of F-28s sold to 162.

Systems Company, with the Independent Coal Company and Rome, Caracas finance plan Coal Systems of Texas owning

majority of whose capital would be underwritten in equal parts the December agreement.

by public financial institutions A proposal linking further from both countries.

would be to encourage the fransfer of Italian technology to Venezuela. The plan was .The new equipment will be announced recently in an official Caracas of the trade co-opera-

ROME-Italy and Venezuela firmed at the meeting was the are studying a plan for a new regular increase of total oil joint financial institution the supplies to Italy to 100,000 barrels a day, up slightly from

increases in Venezuelan crude The object of the institution and petroleum product supplies to the value of Italian goods and industrial services furnished to Venezuela was discussed, but a definitive agreement was not reached. Also considered were the

possibilities of new joint ven-

Fast rise in UK trade with Zimbabwe

BRITAIN'S trade with newly independent Zimbabwe has developed fast since sanctions were lifted in November last year, according to figures the Department of Trade.

British exports reached a monthly high of £1.8m in March this year as UK companies took advantage of was traditionally a major market for British goods, officials said. But there is still plenty of room for expansion, they added.

Total British exports for the first four months of this year are £3.8m, although there has been an unexpected decline in the volume of trade

for April. While most of the British exports to Zimbabwe have been capital goods and equipment to replace ageing stocks, most of the Zimbabwean exports to Britain have been raw materials, iron and steel, officials say.

The official figures show

total imports from Zimbabwe at £5.5m for the first four months of this year but that is thought to include the provided to Zimbabwe up to the time of independence which are included in the Department of Trade's

Once the pattern of trade is established it is likely that Britain will run a healthy trade surplus with Zimbabwe because of the country's need to replace its capital stock and get its industry fully

Reflecting the intense interest in the Zimbabwe market by British businessmen, a major conference is being held in London on July 17-18 at which two senior Zimbabwe Government officials will speak.

The conference is being organised by London Export Conferences of Tavistock at the Hilton Hotel in association with British Airways and Air Zimbabwe, with whom they have a commercial

Among the speakers will be Mr. Nathan Shamuyarira, the Minister of Information and Tourism in the new Government and Mr. Oliver Deputy Muñyaradze,_ the Minister of Finance.

Manila approves U.S. can ventures

can manufacturers, Continental in a pesos 300m (\$41m) venture Can (Contican) and American with Elizalde, the only tin plate Can International (ACI), have manufacturer in the Philipapproval to set up manufactur- Philippine Container Corporaing facilities in the Philippines, tion. despite strong opposition from

local companies.

Contican, which applied for approval in 1978, is tieing up with Avala Corporation, one of the biggest local concerns engaged primarily in real estate development. The U.S. company is taking a 40 per cent stake in the peso 209m (\$27m) project.

ACT, which announced its plan to operate in the Philippines earlier this year, is also

letters of approval granted to the two companies by the Board of Investment, indicate that they will produce food-grade and beverage cans. They are also required to export at least 30 per cent of their annual output-10 per cent directly as tin cans with the remaining 20 per cent to be sold to local food processors who will later export the tinned finished products

Contican-Ayala's approved competition from foreign com- of fish.

granted government pines. It will operate as the grade and 450m beverage cans, ventures, val to set up manufactur. Philippine Container Corpora. At the time of Contican's However the approval of the

hibited because they are already valuate its plans because of adequately exploited by local likely overcapacity. companies.

Government's effort to spur have to scramble for the supply

THE TWO largest American putting up 40 per cent equity annual capacity is 300m food panies with the aim of upgradgrade cans and 100m beverage ing local productivity, and encans while that of the ACI- couraging foreign investments, Elizalde venture is 150m food especially in export-oriented

original application the tin can two U.S. ventures has not only making industry was on the angered local companies but "overcrowded" list of indus- also surprised Contican which tries, where foreigners are pro- has said that it will now re-

An Avala official said that the Earlier this year, however, the local market cannot absorb the can manufacturing industry combined output of the two new (together with 19 other indus- companies. The most viable tries) has withdrawn from this local market for food-grade cans list by the Ministry of Industry is the fish market, particularly and the National Economic and sardines and tuna, but the offi-Development Authority. cial said that the respective
The move was part of the clients of Contican and ACI will

SHIPPING REPORT

Market activity picks up as VLCC rates improve

BY WILLIAM HALL, SHIPPING CORRESPONDENT

in the Very Large Crude Car- Transport and Trading, one of rier (VLCC) market towards the the world's biggest tanker end of last week and rates have operators (206 tankers, totalling marginally improved.

John I. Jacobs, London shipbrokers, reports that for the chartering requirements would main tanker trade route, Westwards out of the Gulf, the rate for VLCCs has risen to Worldscale 32.5. For the bigger Ultra Large Crude Carriers Far (ULCCs), rates have fluctuated fact. between Worldscale 27.5 and Worldscale 32.5.

about the next few months.

THERE WAS a flurry of acivity a senior executive of Shell 25.7m dwt) is reported as say-ing recently that Shell's drop by around 1.3m dwt in the current year.

> In the dry cargo markets, the Atlantic remains firmer than the Far East and rates reflect this

Denholm Coates reports that the Russians chartered several The tanker market often picks ships for round trips out of the up in the summer but few com- River Plate. The vessels, of panies appear very optimistic between 27,000 dwt and 40,000 out the next few months. dwt, were fixed at between World oil stocks are high and \$12,000 and \$14,000 per day.

Travel catering event

BY OUR WORLD TRADE STAFF

catering exhibition and con- Conference Centre, is being ference, ITC 80, is to be held sponsored by the monthly pubin London from June 24 to 26. The three-day event will cover airline/airport catering and ship services with participants from the food, soft drinks and liquor industries together with duty-free trade specialists as well as representatives of the tableware, catering equipment specialised packaging

ITC 80, which will be staged in Amman.

AN INTERNATIONAL travel at the Kensington Town Hall lication International Travel Catering, published by Thomas Reed International Press. It will be opened by Sir Charles Forte, executive chairman of Trusthouse Forte. • Trusthouse Forte, through its subsidiary, THF Inter-national Management, has

signed an agreement with the Housing Bank of Amman, to manage a 340-room luxury hotel

GDR stages engineering week in Britain

BY OUR WORLD TRADE STAFF

EAST GERMAN, the London the trade balance with the and Birmingham Chambers of GDR in Britain's favour, Commerce together with the GDR Chamber of Foreign

Taking place in London, Birmingham and Edinburgh, the event is being held at a time when quarterly trade figures reveal a threefold increase in UK exports to East Germany compared to the same period last year, with exports totalling £36.7m for the first three months this year against £12.145m for the first quarter in 1979.

three months of this year comperiod last year. This swings

reversing the trading pattern between the two countries in Trade, are organising a GDR recent years. Last year UK engineering week this week. exports to East Germany totalled \$58.16m against imports of £111.7m while in 1978 UK exports amounted to £47.46m compared with imports from East Germany of £88.39m. Under the joint patronage of Dr. Gerhard Beil, member of the Council of Ministers and Secretary of State at the GDR Ministry of Foreign Trade, and Mr. Cecil Parkinson, Minister for Trade, the enginering week will include presentations on ; Imports from East Germany machine tools, plastics, agritotalled £30.98m in the first cultural machinery, textile machinery, office equipment, printing machinery and medical . equipment.

World Economic Indicators

INDUSTRIAL PRODUCTION

				91	er previo	us base
U.S.	Apr. '80 148.5 Mar. '80	Mar. '80 151.2 Feb. '80	Feb. '80 152.4 Jan. '80	Apr. '79 150.5 Mar. '79	year — 1.5	year 1967=100
			•	•		
UK	108.9	110.2	111.4	111.5	— 2.3	1975==100
Holland	117.0	717.0	716.0	7 70.0	+ 6.4	1970=100
Germany	130.0	123 <i>.</i> 4	114.8	122.2	÷ 6.4	1970= TOB
italy '	136.0	135.0	135.0	132.0	+ 3.0	1970=100
France	136.0	135.0	135.0	132.0	+ 3.0	1970-100
	Feb. '80	₫an, '80	Dec. '80	Feb. 79		
apan	147.7	139.8	138.1	129.3	+14.0	1975 =100
	Jan. '80	Dec. 79	Nov. 79	Jan. 79		
Belgium	108.4	112.5	123.7	97.6	÷11.1	1970=100
			-			

Coloroll: retains position as fastest growing wallcoverings company in Europe.

TNAFURTHER RECORD YEAR Director with responsibility for all group of growth, Coloroll sales and profits have increased by over 60% compared to the previous year.

£1.85m to £3m. Export sales have also risen from £2.5m to a level of £3.4m. The company believes the results are a

Turnover has increased from £11m to

vindication of the key elements of its trading massive investment in design and origination

heavy investment in modern machinery

 strong marketing and sales approach Management: The Key

• 100% stock availability at all times



John Bray, Chief Executive and Deputy Chairman

The architect of the group's growth has been 44-year-old John Bray, who in 1974 committed the company to a five year plan to expand the Coloroll wallcoverings business force in the market by 1980:

Evidence of the plan's success must be in the results announced today with substantial growth achieved in the pastyear and margins



Responsibility for day-to-day operations within Coloroll for the past year has been with John Ashcroft It was in May 1979 that he assumed executive control of the wallcoverings business, and from June 1st of this year Ashcroft at 31 is appointed Managing

tracing activities. John Bray becomes Chief Executive and

Deputy Chairman and will devote more time to the group's overall strategy.

The company has achieved major growth £17.9m in the year and pre-tax profits from in the difficult wallcoverings market, selling largely through D.IY. Home Improvement outlets. A recent survey indicates that growth in the wallcoverings market was 4% last year after a decade of decline. This clearly illustrates that Coloroll's growth has been achieved at the expense of other manufacturers.

Company Policy

Coloroll argues that the wallcoverings industry typifies the problems of many manufacturing industries in the U.K.

Without the emergence of Coloroll as a significant force in the market, challenging established trading practices, the industry may well have seen a collapse of the U.K. base through import penetration. In many industries we have seen the same phenomenon of an import led decline of the domestic manulacturing base with management blaming low productivity, the work force, inflation or the strength of sterling-in fact any number of permutations of an established theme.

"In many cases," says the company, "management problems are of their own making. In the majority of instances they have, or should have had, the foresight and resources to avoid the problems before they happen. In carpets, for example, designers failed to recognise the critical influence of

ignored the subtle, continental colourings and neutral designs which the consumer was seeking, thus allowing imports to make great headway."

No wonder that Coloroll places such heavy emphasis on its own design involvement, with heavy investment-over £1m this year-in design and origination and featuring Linda Beard and John Wilman, creative personalities and acknowledged top designers in their field. The group further ensures that the essential continental influence is introduced into the collections through its second design studio based in France.

"Business is People"

Coloroll places great emphasis on individuals in the organisation and is committed very strongly to a philosophy that "Business is People" arguing that only from this can one generate industrial harmony.

The company boasts a strong management team with many individuals handpicked from amongst the best in the industry complementing the established Coloroll managers. Coloroll derides the belief that foreign

workerswork harder than their U.K. counterparts and believes that given the right environment in which to work, the U.K. worker in general and the Lancashire workforce in particular, are capable of outperforming the best in the world.

The company enjoys excellent relationships with its unions and during the past year has invested in excess of £200,000 in staff welfare including the recent completion of a leisure complex complete with saunas, and enable the company to emerge as a major colour and design on sales performance and solarium and gymnasium to create a

EXPORT TURNOVER 2000's

1971/72 1872/73 1973/74 1974/75 1975/78 1976/77 1977/78 1978/79 1979/80

different atmosphere from the normal workplace found in a Lancashire mill town.

1971/72 1972/73

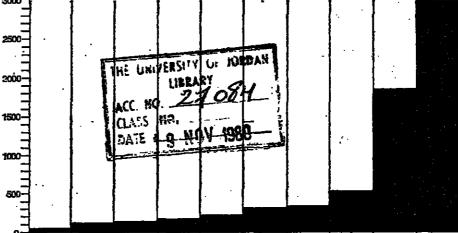
Another exception to the rule for such a town has been the £4m capital investment programme over the last three years providing the foundation for the company's growth. The latest phase in investment provides the group with the largest wallcoverings manufacturing unit in the U.K. operating from one site, and benefiting from substantial economies of scale, maximising manufacturing efficiences and producing optimum absorption ratios for the overhead structure. It is this operating unit that provides the basis for the profits growth. A. recent investment of £400,000 will take the company into a completely new sector of the market-duplexing-opening up another area for exploitation and sales growth, yet operating within the same sales and distribution channels.

New Ranges

Coloroll is adamant that with attractive designs, imaginatively marketed interestcan be resurrected at consumer level. The coordinated Dolly Mixtures range, by Linda Beard, is proof of this belief with this collection of small scale, attractive florals already a market leader.

This theme has proved so successful that 1980 will see the launch of two further coordinated ranges. The John Wilman collection of more sophisticated designs utilising up to 14 colours in fabric printing and "Playmates" a collection of co-ordinated nursery designs serving a wide age spread and incorporating both screen and transfer

Despite the general uncertain economic



1973,74 1974,75 1975,76 1976,77

PRE-TAX PROFITS £000's

presents the company with exciting prospects within a new industry. As recently announced in the press, the company has entered into a marketing agree-

1977/78 1978.79 1979/80

climate which may well lead to some further

rationalisation within the industry. Coloroll

remains confident that in the financial year

has become more heavily involved in the

sales and marketing of household textiles

Within the last six months the company

1980/81 it is set for substantial growth.

ment with Spillers Limited for starch extended plastic-the vatents for this process. developed by Dr. Gerry Griffin of Brunel University, are owned by Coloroll. During the test period Spillers has

Coloroll are exhibiting at

Wallfashion'80

Park Lane Hotel, London W1

this week.

initially through the Linda Beard range of co-

ordinates and the results achieved to date are

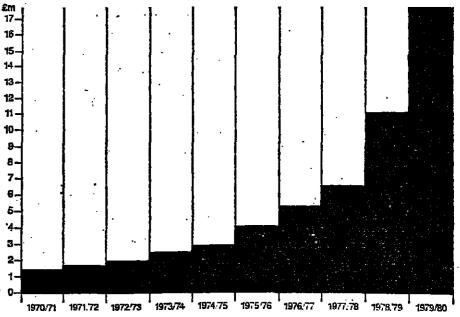
most encouraging. This new area of activity

established a complete pilot plant and is licensed for most areas in the World.

Coloroll is already successfully using this process in its plastic carrier bag division which now has a capacity of 150 million units per year supplying such companies as Marks & Spencers, Sainsburys, Boots and Spar-

Within the last three years the number of employees has increased from 280 to 450 with a turnover per employee during the last financial year of almost ±40,000 and a pre-tax profit per employee of £6,666. The return on capital employed exceeds 40%.

GROWTH OF SALES



-in business for the '80s



BY WILLIAM HALL, SHIPPING CORRESPONDENT

BRITISH CONCERN about the an important shipping ally in number of substandard Greek the enlarged EEC. However, merchant ships is likely to be British officials are worried that voiced by Mr. Norman Tebbit, the effectiveness of Greek sup-Parliamentary Under-Secretary of State for Trade, when he meets Mr. Ioannis Fikioris, Greece's new Minister of Mercantile Marine, in Greece this

4

attending the opening of the seventh Posidonia International Shipping Exhibition in Piracus today, is the first UK minister to meet a member of the new-Greek Government.

His visit is timely since Greece joins the EEC at the beginning of next year. Until now Britain has been the only major maritime country in the EEC. It and Greece will control 60 per cent of the EEC merchant shipping fleet.

In common with British ships, the Greek merchant navy relies heavily on the "cross trades" transporting goods between third countries. Over the past few years "cross traders" have been under considerable pressure since many countries are becoming increasingly protectionist and reserving cargoes for senior executives of the world's

port on matters of mutual shipping interest may be reduced because of growing criticism of the safety record

of Greek ships.
Mr. Tebbit is also expected to Mr. Tebbit, who will be discuss a £400m order for four replacement frigates for the ageing Greek navy. Yarrow, the UK warship-

builder, has submitted an offer for four ships of which one will be built in Britzin. Under the proposal, the remaining three will be built in Greece and this has generated considerable interest in the Greek shipbuilding industry.

The week-long Posidonia Ship-ping Exhibition is one of the major events on the international shipping calendar. It will be opened today by Mr. Fixioris. Mr. Richard Burke, the EEC Commissioner for

Transport, will also attend. Exhibitors from approxi-mately 600 companies from 40 countries will be participating, and some 3,000 chairmen and their own ships.

Britain hopes Greece will be expected to attend.

Business bureau plan

A "marriage bureau "to bring "marriage bureau mas small businesses together with because of the problem that small businesses can face in heaters. by the London Enterprise

It is aimed at helping businessmen who want either to set up or expand enterprises. A register of business propositions will be built up which will be circulated to interested institu-

The agency was created last year by a group of large com-panies to channel help to small businesses and the idea of the up to two years.

The bureau will also prepare

a list of retired or redundant executives available to provide managerial and other advice. Mr. Barry Baldwin, chairman of the economic committee of the Union of Independent Companies, has been appointed an adviser on small businesses to the Conservative Party. He has been seconded by Price Waterhouse, for whom he works, for

Call for energy conservation

A NATIONAL energy conservation policy is called for by the stress should be laid on the re-Council for the Protection of duction of primary energy de-mand rather than the Govern-

The council says that more Rural England in its annual rement's emphasis on the steady nort published today.

Help curb rate rises says CBI By Alan Pike

BUSINESSMEN ARE being urged to take a more active interest in the affairs of local authorities as part of a Con-federation of British Industry campaign to curb rate increases.

The CBI campaign is designed to attack high levels of local authority spending and the consequent impact on business rates. Industrialists are being urged to use their influence to persuade councils to limit their budgets and seek better value for money.

Mr. Bryan Rigby, deputy director-general of the CBI, said yesterday: "The most effective way of dealing with the problem is to improve the contact between businessmen and local authorities. They have a mutital interest in the success of

their local economy." The CBI is suggesting to businessmen they should get in-volved in running local authorities as well as trying to influence them from outside.

Industry warns on grant cuts

INDUSTRY AND commerce could be seriously damaged by the Government's proposals to penalise some local authorities for overspending by withhold-ing a portion of future grant, the London Chamber of Com-merce and Industry says today.

The Government is considering a list of local authorities which have overspent by the largest margin with a view to imposing financial penalties on the worst 20 or so, most of which will be in London.

Hunt challenges £17m BP award

MR. NELSON Bunker Hunt. the American millionaire best known for his activities in the silver market, will challenge in the Appeal Court tomorrow an award of £17m made to BP Exploration (Libya) by a High Court judge last year.

The appeal concerns an greement in 1960 under which BP joined Mr. Hunt in the exploitation of an oil concession he had obtained in the Sarir field in Libya three years earlier.

- In return for a half-share in the concession, BP undertook to explore and operate the oil-field.

Offshore oil jobs may increase 50% by 1987

BY RAY DAFTER, ENERGY EDITOR

OIL COMPANIES operating in the view that numbers will peak the UK sector of the North Sea at 1,950 next year and drop are preparing to increase the gradually to 1,300 by 1986 and number of their offshore employees by up to 50 per cent in the next seven years,

A new offshore study shows that the number of men required to service oil production platforms in the oil-producing central and northern sectors of the North Sea could rise from about 8,600 at present to be-tween 10,900 and 13,100 by 1987: Much will depend on oil company development plans, and Government measures to control the rate of offshore production. In addition, the number of men working on mobile drilling rigs could rise from 1,700 at present to about 2,000 in seven years, according to estimates published by stockbrokers Wood,

Sea Report.

Mobile units The increase in the numbers working on mobile units— mainly semi-submersible and jack-up drilling rigs—would be dependent on oil companies becoming more active in exploration, appraisal and development work. Taking the most optimis-tic view, Wood, Mackenzie see manning levels on these mobile units rising to 2,200 next year and dropping to 2,000 annually tional cost savings. Further-from 1984 to 1987. On the other more, the concept could relieve pessimistic assumptions about drilling activity lead to Aberdeen and Sunburgh

Mackenzie in their latest North

Seaforth orders two ships from Singapore Slipway

SEAFORTH MARITIME of gramme. They are the first Aberdeen has placed an order vessels to be built by the comwith Singapore Slipway and pany solely for platform supply Engineering for the construction of two 3,060 deadweight. The ships are designed to tonne platform supply vessels for delivery in autumn next

British Shipbuilders was among the companies which reached a final shortlist of five contenders for the contract.

The two new ships, designed by Maritime Engineering A/S of Oslo in consultation with Seaforth's technical projects department, are the fifth phase

between 100 and 200 men and,

offshore operators commute to

from the mainland by heli-

Airfine operators have started ordering larger helicopters to cope with the traffic. Wood,

Mackenzie says that ships could

be used but they would be much

slower than aircraft and, con-

Another possibility would be

a floating, semi-submersible air-

port which would handle both

Crews could fly directly

helicopters and fixed-wing short take-off and landing air-

from cities, such as Glasgow. Edinburgh and Newcastle, to a

location close to the main oil

producing platforms, where they

- While a large capital invest-

initially, there could be opera

air traffic congestion around

would transfer to helicopters.

sequently, unpopular

copter.

Helicopters

. The ships are designed to carry a higher payload than most normal supply vessels, while remaining within the size of conventional craft.

Seaforth, jointly owned by James Finlay (55 per cent) and Taylor Woodrow Construction (45 per cent) currently has a fleet of 14 owned and managed vessels. The two new ships will improve the flexibility and range of the company's marine operaof the company's building pro- tions.

Christine Moir explains the new Companies Act

Restrictions may boost share option schemes

encourage share option schemes, the Government hopes.

The Act makes it a criminal offence for people connected with a company, particularly its directors, senior employees and The brokers point out that professional advisers, to disclose manning levels will have a big impact on belicopter and shipspecific confidential and priceping operations. Each fixed offshore platform is staffed by sensitive information to potential share dealers or to deal in such information themselves. Since a company's directors in some cases, women. All the

may be assumed to be in posses sion of "inside information" most of the time, there have been fears that the Act will discourage directors from holding shares in their own com panies.

The Government does not believe that the "insider dealing" provisions of the Act,

share dealings by company direc- 23, will in practice have such Government's proposed Comtors and employees in the new an effect. However, it points Companies Act should indirectly out that, if directors are concerned about dealing in the and that they must be reasonmarket, they can freely subscribe for shares in their com- tial effect on the share price. pany offered through an option scheme.

This should encourage comparries to introduce such narrowly are not matters of schemes, which complement the Government's desire to promote wider share ownership, particularly among company workers.

The criminal offence of "insider dealing," however, does his permission, but personal not merely cover connected per allegations of insider dealing sons. The provisions of the Act after June 22 can be referred to

make it an offence for anyone to profit by share dealings based

THE TIGHT restrictions on which come into force on June drafted under the Labour parties Bill are that the information must be of a specific nature ably expected to have a substan-Information of a general nature and that which might only cause the share price to move

> Criminal proceedings unde the provisions will be able to be instigated only by the Director of Public Prosecutions or with

the Trade Department. Several other provisions of on inside information of a sub-stantially price-sensitive nature June 23. In particular the duty about specific company affairs. of directors to have regard to The key changes between this the interests of their employees and the clauses as well as of snareholders

New car sales up record 17% in first quarter

RECORD first quarter car sales belped push up turnover at the retail end of the motor trade by 20 per cent compared with the first three months of last

Department of <u>Industry</u> statistics published yesterday show sales of new vehicles. including cars, commercials and motorcycles, up 17 per cent on ast year's first quarter. The biggest increase—of 26 per cent—was in sales of petrol

and oil, tyres, spares, accessories and receipts from servicing and repairs. However, the statistics are at current prices, and inflationary factors such as oil price rises and higher labour rates have had a particular impact in this sector and in volume terms its contribution is comparatively

The weakest sector was used vehicle sales, dominated by private buyers, which rose by only 12 per cent.

Advice on BR DISPENSERS holding up to advising rail · leaflets travellers with complaints to write to the Transport Users' Consultative Committee of their areas are to be placed in 21 British Rail travel centres.

Minister may keep quiet on S. Africa companies

PRESSURE GROUPS seeking the names of British com panies paying South African workers wages below sub-sistence level fear that Mr. John Nott, the Trade Secre-tary, will refuse to provide the information in a written Commons reply today.

Labour MPs are demanding

the names of 33 companies paying at least some of their black workers below subsistence level, and a larger number paying less than EEC recommended rates.

Mr. Nott was away from his Department last week and will review the position today. Indications are he will take the view that publication of the names, from information provided to the Department of Trade by some 200 Britishowned companies trading in South Africa, is inappropriate. MPs seeking the information claim withholding the names would encourage con panies to ignore the spirit of codes on employment conditions for South African workers produced by a in 1974 and the EEC in 1977. Last year 18 companies were named under the protection of Parliamentary privilege. Supporters of naming believe that publicity and pressure from shareholders are the best weapons with which to attack the problem. But against this it is argued that repeated publicity might discourage companies from providing information, mak ing Government pre

Many farmers 'doing nicely'

pinch of salt, according to Dr. Robert Bruce, general manager of Midland Bank's agricultural

DOOM-LADEN PREDICTIONS than 10 per cent, were in for the future of British farm- trouble because of rising costs ing should be taken with a and stagnant returns, he said at the weekend, but many were doing "very nicely:" Dr. Bruce was launching a

against offenders more

cult to achieve.

new edition of the bank's book-Some farmers, probably fewer let. The Farmer and the Lender.

Statement by the Chairman Lord Sieff of Brimpton, O.B.E., B.A.

Group sales totalled £1,667,905,000 and our profits before tax were £173,651,000. Store sales in the UK were £1,677,064,000 compared with ... \$1,431,714,000 last year. VAT accounted for £133,559,000 this year against £71,113,000 last year. Net

Profits available for distribution are £93,864,000, after taxes of £79,268,000, allowance for minority interests of £519,000, allocation of £3,050,000, to the Employees' Profit Sharing Scheme and £2,551,000 to fund the increase in pensions awarded during the year.

UK sales were, therefore, £1,543,505,000

against £1,360,601,000.

We are pleased to be able to recommend an increased final dividend of 1.9 pence per share, totalling 3.4 pence for the year. This is the first time after seven years of restrictions that we are free to pay a dividend appropriate to our rate of profits. Employees, pensioners and shareholders share in our progress.

Trading conditions changed greatly during the year. The increase in VAT from 8 per cent to 15 per cent; combined with unseasonable summer and autumn weather, reduced demand for clothing and the level of sales dropped sharply. Food sales remained buoyant. Family expenditure on mortgages, rates, lighting and heating, petrol and fares rose steeply; people had less money for spending in shops.
Competition intensified as the volume of imported low priced clothing, some improved in quality, increased.

LOWER PRICES

In September we lowered prices of a number of major items of "St Michael" clothing and foods and held back price increases across a wide range of lines. We shared the cost with our manufacturers. Our quality standards were maintained.

BETTER VALUES

This New Lower Prices and Better Value Campaign increased sales and helped our manufacturers to maintain reasonable levels of production.

Since Christmas, inflation and memployment have accelerated. Our clothing sales, though better than last year, were below estimates. Food sales continued at a high level.

We are meeting this challenge by concentrating a larger proportion of our range on more classic, easier-priced garments while maintaining our quality.

OVER 90% BRITISH MADE

Last year, UK clothing imports accounted for 29% of all British sales. Over 90% of "St Michael" clothing was made in Britain. Whereas 60% of all sales of shirts in the UK were imported, 99% of "St Michael" woven shirts were made in Britain and "St Michael" shirts accounted for 30% of all British shirt production. We continue our policy of buying British and are concentrating on working with the most design-minded, technically advanced and productive of British manufacturers who can best achieve good quality and value — but some contraction of the UK textile industry is inevitable in today's economic conditions of reduced demand. surplus capacity and increasing imports.

In recent years, we developed production with a few outstanding overseas clothing manufacturers in high wage countries. They are innovative, have high quality and productivity and their goods are attractive to our customers. They stimulate us and our

best UK manafacturers. We intensified our efforts to improve quality standards. I am happy to report an improvement in the make and finish of our goods. This is reflected in the letters I receive from customers. I thank our suppliers for their co-operation.

OVERSEAS

We developed exports to Japan and improved our sales to the Caribbean and South America. This enabled us to

make a small increase in our exports over the previous year when a number of countries banned or restricted the entry of British goods. Many currencies depreciated against Sterling, making British exports more expensive in foreign currencies. We aim to meet the challenge abroad by ensuring that "St Michael" merchandise offered overseas is of good quality, good design, is delivered on time and is backed up by an efficient marketing programme.

We made some progress in the EEC and opened a store in Dublin. The success of our store in Boulevard Haussmann has encouraged us to seek further sites in France.

Marks & Spencer Canada Inc. made a profit of C\$3,300,000 in the financial year ended 31st January, 1980, against a loss of C\$1,250,000 in the previous year; the Marks & Spencer Division was not yet profitable. The dividend of 5 cents was the first payment since September, 1975.

UK Stores

TAXATION

Dividends.

EARNINGS

GROUP NET PROFIT

Direct Exports

Overseas Stores

TOTAL GROUP SALES

SALES (excluding VAT and other Sales Taxes)

Foods

Europe

Canada

Canada

Ordinary Shares

per share (pence)

per share (pence)

PROFIT BEFORE PROFIT SHARING,

TAX AND MINORITY INTERESTS

Europe :

EMPLOYEES PROFIT SHARING

· UK ·

Clothing etc.

EXPANSION

In the UK, we opened during the year 3 new stores and 9 extensions. Our Edinburgh store in Princes Street was doubled in size and transformed in an exceptionally difficult and very well carried out building operation by Bovis. During 1980, we shall open 3 new stores, in Harrow, Inverness and Milton Keynes where we are not represented, and 6 more in the following two years. Our building programme will cost about \$300,000,000 in 4 years.

ENERGY CONSERVATION

In 1974 we started our energy conservation campaign. We estimate that we saved this year \$2,800,000 and. while maintaining standards, now use 30 per cent less energy than we would have. We continue to invest in new technology, but continued savings depend to no small measure on the support and enthusiasm of our staff in

1979

98

21-2

3-1

13:3

20.7

10-1

13-2

13-2

3-9

98

30-5

930,891

429,710

25,483

23,575

63,295

1,386,084

1,472,954

163,756

164,249

2,695

76,312

85,512

33,904

26ip

1,126

loss (633)

Summary of Results

YEAR TO 31st MARCH 1980

1,022,508

520,997

1,569,790

1,667,905

173,592

176,701

1,861

1,248

3,050

79,268

93,864

44,258

34p

26,285

28,448

69,667

year. We spent £37,000,000 on staff benefits including £22,230,000 on a non-contributory pension scheme. Our staff responded well to the

exercising care and good sense in the

I thank our staff for their loyal and

good human relations and good

This results in a high level of

19,291 will participate in the

involvement, staff stability and

hard work. Our continuing policy of

communications with our staff at all

levels is essential; its implementation is

a never-ending task for management.

productivity. Our staff should and do

share in the progress of the business. We increased salaries significantly.

Company's Profit Sharing Scheme this

use of energy.

STAFF

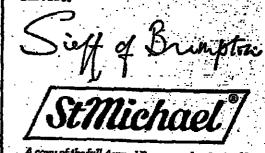
SOCIAL RESPONSIBILITY In the year under review, we donated

requirements of the business in the

course of this changeable year.

\$860,000 to charities and incurred further indirect costs of £275,000. Our support was mainly in the fields of medicine, the arts, education, research and youth employment. We also seconded experienced staff to work on socially desirable schemes, particularly concerned with the regeneration of city centres and helping the young.

We shall best meet the challenge in the years ahead by adhering to our philosophy of providing goods of quality and value, maintaining good human relations with our staff and giving our customers good



The Secretary, Room Cl33, Michael House, Baker Street, London WIA 1DN.

Wiet

LITY

Industrial Leasing:

Why we believe we can do more for you than any other leasing company.

- Experience. We have been handling the total range of leasing transactions including Industrial Leasing, computers and cars in the U.K. for well over a decade.
- 2 Talent. Our executives are drawn from banking, accountancy, legal and actuarial professions professional people capable of understanding the financial aspects of your company's business and how they relate to leasing.
- Strength. We are a member of the Midland Bank Group which means our financial standing and resources are of a magnitude that allows us to take on virtually any size of leasing arrangement.
- Service. We endeavour to maximise your company's return on its financial commitment by carefully constructing individual leasing packages that take full advantage of your financial situation. We believe we are better at achieving this aim than any other leasing company. And that cannot just be our belief because, year after year, more and more companies come to us for Industrial Leasing.

To learn more about our approach to leasing and how it could help your company, please contact us.

Midland Montagu Leasing Limited



Families switch to lamb

BRITISH consumers are showing little sign of tightening their belts in spite of sharp rises in food prices.

In the final three months of last year average spending per head on food for consumption in the home was £6.71 a week. 16.5 per cent above the level a year earlier. This compared with a 13 per cent rise in food

prices over the same period. About half the increase in real food reflected purchases of more convenience foods.

The figures published today in the Ministry of Agriculture's Food Facts bulletin do, however, provide some evidence that housewives are counting the pennies. A rise of nearly one ounce to

16.87 ounces in weekly red meat consumption disguises a wide variation for different types of meat reflecting different price trends. Consumption of lamb, for

ginally and consumption was up 12 per cent; but much higher prices for beef cut consumption purchases

which prices fell, rose 26 per

cent; pork prices rose only mar-

poultry continued to advance, reaching 7.78 ounces per person per week, up 23 per cent

Recession in engineering confirmed

BY HAZEL DUTTY, INDUSTRIAL CORRESPONDENT

THE WIDELY forecast recession in the engineering industry seems to have been under way ing a decline in the orders-onby the first two months of the hand. year, according to figures in the official magazine, in British Business.

Caution needs to be exercised in interpreting the statistics, however, because of the disrup-tion and subsequent partial recovery caused by the dispute in the industry last summer. New orders, measured on the basis of an estimated trend, fell 3 per_cent between November and February, the November index of 101 (1975 monthly average = 100) declining to 98 in February.

Sales increased by 4 per cent reflecting the return to full-time working and increased production. Sales have exceeded new ruary.

ing has hit the machine tool industry. Statistics indicate that new orders fell by 16.5 per cent between November and Feb-

Car insurance up 18% for $\frac{1}{2}$ m ABOUT 500.000 insured with Commercial Union 18 per cent from today—

motorists premium rates by an average of Assurance face higher premiums slightly below the rise in the The company will raise its cost of living.

-Venue NEC, Birmingham

Wembley Conference Centre

Wembley Conference Centre

NEC, Birmingham

Earls Court

Copenhagen

Hamburg

Singapore

Rio de Janeiro Singapore

Cunard International Hotel, W

Wembley Conference Centre

Earls Court Kensington, W8 Exhibition Centre, Harrogate Kings Hall, Belfast

orders from the home market

in January and February, bring-

The brief surge in export

activity last autumn has also

begun to tail off. New export

orders fell 2 per cent between

November and February, when

the index at 102 was far below

any period the previous year.

trical, mechanical and instru-

ment sectors. Some forecasts

for the mechanical sector have

predicted a serious decline in

orders over the next 18 months

British Business also says that the general fall in capital spend-

The statistics cover the elec-

Olympic coverage debate

BY ARTHUR SANDLES

TTV AND BBC decide this week just how much coverage they are going to give

to the Moscow Olympics.
Faced with a moral
dilemma and worries over audience interest television coverage is likely to be twothirds less than originally nianned

The depth of feeling has been revealing itself in a hardening of attitudes within TV. While the BBC has been able to work towards a policy through internal debate, ITV's federal system, which requires broad agreement from the member companies, has produced considerable strain.

At one end of the spectrum
ATV which wants little Olympics coverage and certainly little live coverage. Strongly disagreeing London Weekend Television which believes that the Olympics will be popular and it is not for television companies to turn their backs just because of the location. A degree of compromise has been reached. However, much will depend on the BBC attitude. Some people in ITV hope that a form of shared

Party brawls were keenly

looking forward to the one-

day Wembley conference.

Comparisons were being made

with the great party battles

over clause 4, nuclear rearma-

ment and other notable bloodlettings of the past.

But it was not to be. Those

for the debate on the

who trudged through the

NEC policy document "Peace,

Jobs, Freedom" were disap-

pointed if they were looking

for excitement. No teeth

were knocked out, no eyes

Mr. Callaghan, the party leader, was heard in polite

silence by a subdued audience

and dutifully applauded at the end. Mr. Anthony Wedg-

wood Benn who wound up

with an appeal to the hearts

of the Left, received a stand-

Paul Cheeseright on the new issue of British tin shares

Mining facts belie romantic ideas

mining in Cornwall and Devon. This Poldark factor had its most obvious expression in October, 1977, when 35 per cent

of South Crofty, the country's largest tin mine, was floated off. It was more than 45 times oversubscribed.

South West Consolidated Minerals will be hoping for a similar display when the application list opens on Thursday for the sale of 5.5m of its shares at 50p each, making up 25 per cent of the equity in this subsidiary of Dundonian, the best known for its group funeral interests.

It may be a vain hope. Expressions of romanticism are easy against a background of profits and dividends. South Crofty was a working mine. SWCM offers not dividends, but aspirations—perhaps a job in three or four years and a pay packet in five.

Excluding the big international houses, SWCM will bring to four the number of local mining issues traded in London. Like Hemerdon Mining and Smelting, it will be an exploration issue and traded under Stock Exchange Rule 163 (3). This provides for North Sea and other mineral exploration companies which do not have an established earnings record to come to market, at what

Crofty itself.

some 200 British mining companies with shares trading in London. The reduction to four is one good indication of the way the facts of mining in the South-West belie romantic notions.

The UK was the leading metal mining country in the mid-19th century, but the local industry could not withstand the competition from large deposits abroad. Local consumers found it cheaper and ust as convenient to buy from Africa, Asia, and the Americas. That situation still obtains,

although about a quarter of UK tin needs are met locally. The Cornish tin mines remain high cost producers. Under-ground mines cut out of granite with a costly wage structure are hardly likely to produce as cheaply as the alluvial mining. companies of Malaysia.

What has changed in rec years has been the rise in tin prices and increased demand for speciality metals such as tungsten. This has enabled Geevor and South Crefty to mine is to start by spending survive and given a fresh lerge capital sums at sufface," impetus to exploration in the wrote three local experts. South-West.

LABOUR PARTY CONFERENCE

Delegates avoid brawls and bloodbaths

End tin producer, and South the tin and copper near the surface has been taken. There was expertise is not that of Cornwall A century ago there were no interest in tungsten. Whereever possible, it was left.

Ore is available, yet the amount of mining is small. Looking at this more generally, the Institution of Mining and Metallurgy told the Government in 1978 that "the problem in the U.K. appears to be not so much poor mineralisation of our rocks, but the small size of the country-coupled, of course, with a high population density, high industrialisation, and consequent high mineral demand and need for planned overall

use of limited land area." The biggest mines started in the South-West in the last 15 years - Wheal Jene by Consolidated Gold Fields and Mount Wellington by Cornwall Tin and Mining—have not stayed in business, although Rio Tinto-Zinc plans to reopen Wheal Jane, apparently finding the ore which eluded its predecessor.

Wheat Jane's failure lest substance to the argument that the South-West was best suited to small companies. "In Cornwall, the wrong way to open a wrote three local experts." It is essential to keep

Arguments abound about how tight rein on finance and to richly mineralised the South- avoid the promiscuous use of West is. The mining techniques computers and other electric

of sentimental listing. The other two com- available to previous genera- and electronic equipment, ex-surrounds tin panies are Geever, the Lands thous meant that only some of patriate salaries, luxury offices and hordes of experts whose

There have been parriers to small companies. One is the difficulty of locating the ownership of mineral rights, although SWCM has beaten that problem by finding at Callington a tract of more than 3,000 acres where

the rights were consolidated into single ownership. Others are lack of certainty about gaining planning permission and finance. Venture capital for mineral exploration is often hard to and The Government will help through the Mineral Explora tion and Investment Grants Act, 1972, but private sector sources have often set them-

selves against the speculative element involved Now exploration companies can have their shares dealt under Rule 163 (3), this difficulty may be eased. The treat-ment of SWCM's offer will give some indication of whether the investing public will treat UK risk ventures with the same indulgence they gave to Australian mining hopefuls

*Some promising mining prospects in Cornwall by W. E. Sevier, B. Earl and J. Brooke; Transactions/Section B of the Institution of Mining and Metallurgy, Volume 88 1979. SWCM offer details, Page 20

BUSINESSMAN'S DIARY

UK TRADE FAIRS AND EXHIBITIONS

0 Mil 2-1	memational materials transiting (05F-00 000)
June 6-14	Fine Art and Antiques Fair (01-385 1200)
June 8-11	Sunday Times Business to Business Exhibition
	(01-407 4046)
June 10-12	June Carpet Fair (01-236 0911)
June 10-13	Institute of Housing Annual Conference and
	Exhibition (01-242 3267)
June 11-14	Photo-Sound 80 (0232 32830)
Y 44 44	
June 16—20	International Solid Waste Congress and Exhibition (01-580 5324)
June 24	Intel Microcomputer Fair (0793 26101)
Vanc 27	miter asterocomputer Pair (4195 20101)
July 1-3	Energy Show (01-837 3636)
July 1-3	Temperature Measurement and Control Exhibition
	and Conference (0822 4671)
Te-1- 6 10	Autumn 80 Lightshow (02488 396)
ama 6-10	Autumn 50 Lightshow (U2488 396)
July 8-10	Great Yorkshire Agricultural Show (0423 61536)
July 9-6	Royal Tournament (01-930 6009)
Tuly 11 90	Months of Asia Talling the end soom
July 11-20	Taste of Asia Exhibition (01-272 4287)
July 15-16	Exhibition and Conference on Micro Technology-
	MICROFAX (061-236 4612)
OTTODOT	COTEL DOTLOTE TECHNOLOGY
OVERSEA	AS TRADE FAIRS AND

EXHIBITIONS

· O · DATE OF LAND		TILLOW	12 12
June 5-9 Int	ternational Carpet Exhibition (01-439		Coverings
June 9-14 BI	AM—International B	fachine Tool Ex	hibition ~
June 10—14 Ed	ucational Equipmen (01486 1051)	t Exhibition	VISODATA
	vanced Communica COMM 80 (01540 1	itions Exhibitio	a — EURO-
June 19—22 Soi	ar Energy. Exhibition		
	orld Frozen Food E		8817)
	EE Educational Re 0678)		
June 24-27 Int	ernational Solar For	ırm (02013 4450)	
	ernational Welding		78 N981\
June 28-July 6 Mo	tor Show, Comp Exhibition	onents and	Accessories
July 1-4 Lat	in American Oil Sh	iow (01-322 0466)
	dio Visual Exhibitio		
July 7—11 Int	ernational Training and Exhibition—IV	and Educational	Symposium
RITCINIFCC	AND MAI		ישועים רי

ROSTNE	S AND MANAGEMENT (
June 1—6	University of Bradford: Production Scheduling Workshop (Bradford 491773)
June 2—3	FT Conference: World Banking (01-621 1355)
June 2-3	AMR International: U.S. Financial Reporting and
	Disclosure Requirements for Multinational Corporations (01-262 2732)
June 4	Gower Conferences: Business Strategy for Strong Sterling (01-242 9485)
June 4	CCC: Company Pension Rights—Consequence: of Employees Changing Jobs (01-222 6362)
June 4	IDHE: Strategy for Survival (03745-54268)
June 4	Manpower Research Group: The West Midlands Economy in the 1980s (Coventry 24011)
June 5	The Spring Research and Manufacturers Association: Costing for Estimating in the Spring Industry (0742 760771)
June 5	TEC: Training for Change in the Eighties (0865 512784)
June 5	Oyez: Successfully introducing and using current cost accounts in your company (01-242 2481) AMD: Improving Results through Time Manage-
June 5—6	ment (07535 56047)
June 8—13	Brunel University: Experimental methods for management training and development (0895 56461)
June 9—10	AMD: Communication and Confidence Development for Managers (07535 56047)
June 10-11	INFOTECH: Which Word Processor? (0628 39101)
June 11	Institute of Management Services: Staff Appraisal and Development (01-863 7452)
June 11—13	AMR International: The Management of Projects (01-262 2732)
June 13—14	PCL: Technology and Adjustment to Change at Firm Level — German Swedish and UK experience (01-486 5811)
June 17	Eurex: Information, trading and confirmation system for Eurobonds (01-628 8787)
June 17—18	ASM: Current Cost Budgetary Control (01-385 1992)
June 17—18	Inst. Mech. E: Progress Towards Safer Passenger Cars in the UK (01-222 7899)
June 18—19	FT Conference: The European Offshore in the 1980s (01-621 1355)
June 24	Oyez: Pensions in the private sector (01-242 2481)
June 25—27	Monotype International: Typographical Quality and
	Modern Technology are Compatible (91.65950)

THE NEW SRI LANKA—OPPORTUNITIES FOR BUSINESS

Ronnie de Mel, Minister for Finance and Planning, Sri Lanka.

to arrange this major conference in Colombo on September 4 and 5, 1980.

Heaton Mount, Bradford

Grosvenor House, Hotel, W1 Royal Lancaster Hotel, W2 Tara Hotel, Kensington 75 Mark Lane, EC3 University of Warwick

Birmingham Mayfair Theatre, W1 Inn on the Park, W1 Royal Garden Hotel, W8 Uxbridge

Gloucester Hotel, SW7 Tara Hotel, Kensington Mount Royal Hotel, W1 Browns Hotel, W1

Marylebone Road, NW1 Great Eastern Hotel, EC2

Europa Hotel, W1

Westminster, W1 public ownership as we did after the last war." Grosvenor House, W1 Carlton Tower, SW1

Benn argues against Cruise missile bases

ANTHONY Wedgwood unemployment. Benn came out strongly against reintroduction of an incomes policy by the next Labour

"No incomes policy or wage control can revitalise capitalism when it has declined to the level that it has in this country. Mr. Benn, MP for Bristol SE, called for greater party democracy, more public ownership mons by party spokesmen.
and expanded public services. "We believe and are are and expanded public services. "We believe and are arguing He also came out firmly against for industrial democracy." he the Cruise missile.

"The Labour Party will not accept Cruise 'missiles in this country and we intend to see they are not placed in our ter-

He explained that the policy document called for detente and was opposed to the sale of arms to countries that might use them for internal repres-He said the Chinese Govern-

ment's views on the inevitability of war meant we should not be selling them arms. On domestic policy, he told delegates: "It is by the expansion of the public services that we shall find new engines of growth in the 1980s and 1990s. We are in favour of investing directly in industry through

Full employment must be the first priority of the next Labour Government. Industrial reequipment should be high on the list, trade must be planned and we should not accept a form of import controls imposed by

"No Labour Government should buy back from private speculators assets built up by taxpayers money, over

Mr. Benn also said that the next Labour Government would repeal the Employment Bill if it becomes law-a promise that exceeds statements in the Com-

"That will mean the reestablishment of full trade union rights which are threatened by the Employment Bill and we shall repeal it in its entirety.'

Whatever the outcome of the negotiations in Brussels, the policy document committed the party to return lawmaking and tax gathering powers to the

herit a situation as critical as that of 1945. It was time the Party spoke a a language which people

understood. Some things were right and some were wrong. It was wrong to cut money for kidney machines while spending £5bn on the Polaris submarine. Another NEC member, Miss Joan Lestor, MP for Eton and Slough, also opposed Cruise missiles being based in Britain. A return to detente was essential, she said. We should not allow events in Afghanistan to drive us back to the days of

furious tirade against delegates smoking in the hall. Behind her, Mr. Ron Hayward, the party secretary, puffed guiltily at a cigarette and muttered that the air conditioning changed the atmosphere every few The conference sprang tem-

Every speaker had a pet theme—the Third World, education cuts, the health service, race relations, the porarily to life when Dr. Common Market.

The main subject apparently taxing the minds of party activists was the proposal to station Cruise missiles in Britain. Any denunciation of this scheme was good for

ing ovation from most of the

said to be building up over

the need for greater party

democracy trickled away into

The tide of resemment

1,200 delegates.

minor tributaries.

a cheer. Demands for import controls were also enthusiastically received by delegates conveniently overlooked. the rows of Datsuns and Renaults parked outside. woman delivered

Conference reports by John Hunt and Ivor Owen

David Owen, the former Foreign Secretary, defended the Cruise missile and argued that Britain must negotiate with the Soviet Union from

strength.

hostile to

pay policv MR. JAMES CALLAGHAN, the Opposition leader, demanded that the political and trade union wings of the Labour Party should try again to agree a basis

for an incomes policy.

His plea that wages should be brought more in line with productivity was received coolly by most delegates and many were openly hostile. Mr. Callaghan insisted that

the policies in the "Peace, Freedom" document which conference endorsed by an overwhelming majority, could not be achieved without an agreed basis for an incomes

He did not define the formula he had in mind to produce the criteria "against which wage increases are to be measured" but indicated that he expected the relationship between inflation and the level of settle-He predicted that the next Labour Government would inleast a situation as existed initial success, no incomes policy

so far had been satisfactory. But the weakness of the current afternatives should not be for- showed in executing the about-Mr. Anthony Wedgwood Benn

demonstrated that anxieties expressed from the floor on income policies were shared by at least some of those on the platform. Other delegates combined

bitter attacks on Mrs. Thatcher with laments that her presence in 10 Downing Street was due largely to the "winter of discontent" that was the byproduct of the last incomes policy advocated by Mr. Callaghan.

moderate, Dr. Owen has several other qualifications as an Aunt Sally for the Left: He is urbane, well dressed, and speaks with a posh accent His argument was greeted with leers. Mr. Denis Healey, the

shadow Chancellor, was just getting into his stride with a

spirited attack on "toytown Trotskyists" when Barones Jeger, who was in the chair, spoilt the fun by telling him that his five minutes was up.

the rostrum.

The baroness emerged as the one genuine character of the day. The television lights prevented her from secing what was going on in the hall so she improvised` descriptions of the dress of those she wished to call to

plumpish gentleman in the grey suit " turned out to be the craggy figure of Joe Gormley, the miners' leader. Interference over the speaking system provoked her into making a quip about the "Tory sound engineer."

The gentleman in question turned out to be a local Labour Party supporter. The Baroness made a hasty public

It all ended amiably enough with one of those staggering Labour Party card votes: 5,164,00 voting for the document and 6,000 against. The Red Flag was sung and delegates, left for home.

Not so the indefatigable Mr. Benn, who sped off to a post-conference raily. The subject: "Pighting for the Alternative."

Conference Healey urges party to ignore extremists

MR. DENIS HEALEY, the Shadow Chancellor, hit out subjected to a chorus of "out, out" as he made his way to the rostrum.

He warned that to win the next general election Labour would have to face reality, get inflation down and adopt the policies needed to rebuild manufacturing industry and the welfare state from the foundations up.

To a mixture of cheers and jeers Mr. Healey said: "We will not win the next election if instead of meeting the real needs of the British people we go on ideological ego trips, or accept the clapped out dogmas now being trailed by the toy town Trotskyites of the militant group."

He predicted a new round of U-turns by the Government before it left office and mocked ridiculed the Minister for the agility she turn over the imposition of sanctions against Iran. "Her opportunism is quite as strong as her conviction. He condemned the Govern-

ment's hesitation over extending financial support for the micro-processor industry initia-

in the British economy would be Sir Geoffrey at the Treasury, "a vigorously at the party's Left- sort of robot kamikaze pilot wing extremists after being driving the UK economy into an accelerating nosedive."

Mr. Healey urged that North Sea oil revenues should be used to restructure British industry. Dr. David Owen, the former Foreign Secretary, can into a storm of protest when he argued

against a unilateral ban on the location of U.S. Cruise missiles in Britain. Like Mr. Calleghan he con-tended that the exclusion of

U.S. Cruise missiles from Britain should form part of a wider agreement requiring the with-drawal of the Soviet Union's SS-20 missiles targeted on the capitals of Europe.

Turning to his current responsibilities as Shadow Energy Secretary he urged the party to reach agreement on a balance of priorities for public expenditure projects so that the revenues from the North Sea were not frittered away.

Mr. Gavin Strang, MP for Edinburgh East, said Labour's threat to re-nationalise without compensation was not being taken seriously. He suggested that a more credible pledge would be that the price paid on re-nationalisation would be ted by the Labour Government through the Inmos project. market value or the same as that paid by the owners at the Unless the Government was time of purchase, whichever careful, he said, the only robot was the lower.

Unions challenge Tories

The Financial Times and Greater Colombo Economic Commission have joined forces

Municipal Workers' Union: "We will obey the law," he basis end a Labour Gover told the conference. "But if would have to rebuild it.

The Government some we cannot defeat the Employment Bill in the Commons why should not we develop entitrades union law avoidance policies, the same as the rich

develop tax avoidance policies." the Conservative Government next Labour Government did blaming others for the failure of its economic policies. The Labour movement had a democratic right to protest and leader, said the party had to cheap oil, gas and electricity demonstrate and should be enter the next election with a were available within the U.K.

The unions will seek ways to be taken much further, he said, must be practical, get round the Employment Bill It reflected the policies of the Mr. Clive Jenkins, ASTMS if it becomes law; warned Mr. last election and not the circum-David Basnett, general secre-stances of the 1980s. The tary of the General and Government had put the welfare state on a care and maintenance basis and a Labour Government The Government sought a

major shift in power away from The Trades Union-Labour Party liaison committee had to The unions had to prevent ensure that the policy of the

not founder at the first economic squali. Mr. Joe Gormley, the miners' prepared to repeat its May 14 manifesto that all could stick

leader, said British manufacturing-based industry had suffered irreversible damage because of Government policies, Companies were

borrowed money to meet daily Mr. Jenkins suggested that working people and their the Government was unlikely to organisations, he said. remain in office for its full term. The effect of its policies were "self-ambushing" and it might also collapse due to pressures from industrialists and

bankers. Mr. Jenkins advocated a dual pricing policy for energy. Inflation would be eased if If such a policy meant leaving to. His union favoured the the Common Market, "I would The policy document should policy document but policies look upon that as a bonus."

MEXICO

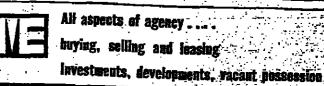
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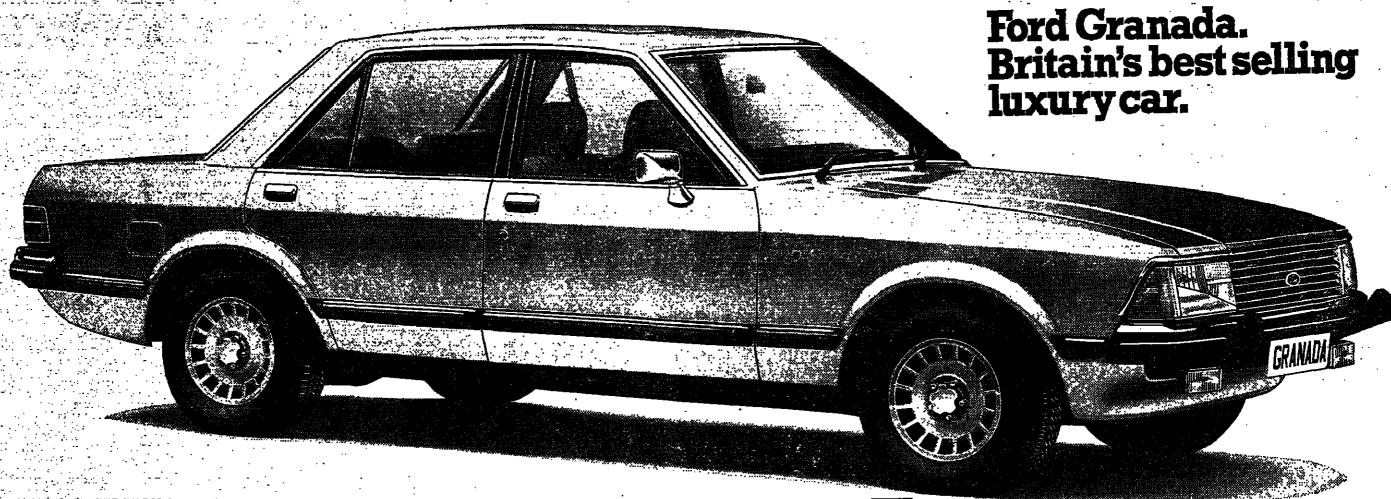
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A distinguished panel of speakers will examine the environment for international

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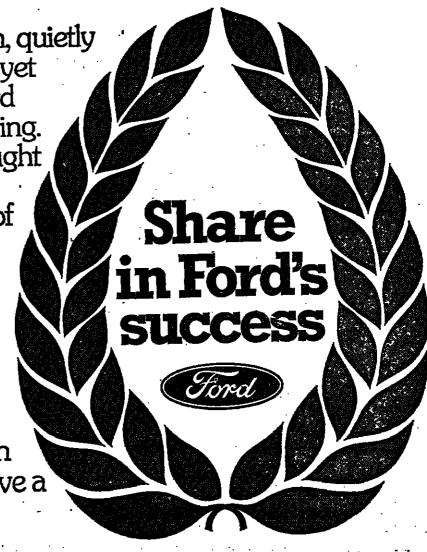
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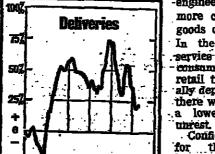
FT Monthly Survey of Business Opinion

GENERAL OUTLOOK Slight gain in confidence

in industry improved in May for the second successive month, partly because some electrical engineering companies have stocked up order books as a result of increased defence spending.

The index of general business prospects is however still around the very low levels reached at the end of last year, and most companies continue to say that they are less rather than more optimistic about the Of the three groups surveyed

last month, the electrical



more confident, while durable goods companies were less so. In the stores and consume service group, the downtrend-in consumer spending and slack retail trade made for a generally depressed outlook, although there was some optimism about a lower level of industrial

Confidence about prospects for the British economy improved for the second month running, although this was based mainly on the longer form view of future prospects rather than on any hopes of an immediate improvement.

C Statistical Material Copyright Taylor Nelson Group Ltd. **GENERAL BUSINESS SITUATION**

		<u> </u>	· ·				וסתו 4	nthly-	moving to	tai	•	May 198	10
	репу'я	prospe		istic about 1 you were		Feb May %		Jan. Apr.	Dec. Mar.	Nov. Feb.	Elect. Eng'g.	nents & Distrib.	Service Organs.
			More	optimistic	È .	25		74 .	78	24	16	5	26
		•		Neutra	F .	37		34	34	- 36	41	55	36
-3	·		Less	optimistic		38	٠.	42.	48	40	43	. 40	38

EXPORT PROSPECTS (Weighted by exports)

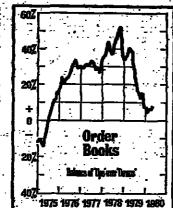
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e glas i caralle e e e e e e e e e e e e e e e e e e		- Feb.	· - jan.		Nov.	Elect.	nents &	
Over the next 12 months exports v	rill be:	May %	Apr. %	Mar. %	Feb.	Eng'g.	Distrib.	Organs.
	Higher	45	49	- : 47	48	47	47	2
· ·	Same	21	22	29	30	26	1 .	38
	Lower	32	27	22 -	22	. 25	52	30
Don't	know	- 2-		2	<u>'-⊕</u> .	-2:		- 30

ORDERS AND OUTPUT

Little change in order books

__COMPANIES __REPORT _little change in the very low level of order books and general demand indicated by the previous month's survey. There continues to be a high level of pessimism about sales prosnects, although this has not deteriorated further in recent months. All three sectors expected a lower increase in output. over the next 12 months than they had done when last asked in January.
The electrical engineering

and durables sectors were more inclined to say they expected order books to fall in coming



sumer service companies forecast that they would increase. The index for new orders also shows little change, with an

improvement in engineering offset by a decline in durables. High interest rates and the strong pound were reported as having affected the recent trend of deliveries. The stores sector complained that consumers' disposable income had been reduced by increases in rates mortgages and nationalised industry charges. Export prospects were judged

more gloomy on account of the

NEW-ORDERS		-				· · · · · ·		· ·
(- 10 to # J 2		4	monthly	moving to	stat:	·1. · · ·	May 198	<u>.</u> 3
The crend of new orders in t	he last fout	Feb. May	Jan. Apr. %	Dec. Mar. %	Nov. Feb. %	Elect. Eng'g.	nents & Distrib.	Service Organs.
<u> </u>	Up	. 36	34	35	31	67	41	'43
	. Same '	20	21	19	21	-15	18	17
	Down	19	17	15	13	. 2	41	10
	No answer	25	28	31	35	. 16		. 30

PRODUCTION/SALES TURNOVER		· · ·		<u>-</u>	-	: "	٠
The state of the s	4.20	onthly r	noving to	otal .		May 1980) .
Those expecting production/sales turn- over in the next 12 months to:	Feb. May	jan. Apr.	Dec. Mar. %	Nov. Feb.	Elect. Eng'g.		Service Organs.
Rise over 20%	5	6	6	5		37	4
Rise 15-19%	7	- 6	5	5	8	<u> </u>	
Rise 10-14%	5	11	14	16	. 3	·	
Rise 5-9%	. 21 .	22 .	. 20 .	16		17	- 9
About the same	54	47	46	48	59	33	- 66
Fall 5-9%	1	7		· 1	ī	4	4
Fall over 10%	. 1	1	1			9	
No comment							- 17

CAPACITY AND STOCKS

Recession forces de-stocking

The emerging recession forcing companies to cut stoc to meet weakenin demand. All three groups sur veyed reported that their level of stocks in relation to sale trends, while remaining historic ally high, had fallen since th beginning of the year.

All three sectors were als less inclined to expect stocks of raw materials and components to decrease over the nex

The survey however show that companies are still placing

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		P	rodi	ıcti	on	
20%	F					1
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60%	ū	7		•	•	_
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80%				ليا	1979	

emphasis on the need to ru
a tight stocks policy, which indi
cates that stocks could be rui
down further in coming months
If this fall continues, it could
mean that the de-stocking phase
of the recession is coming to
_ an end.
There continues to be little
change in the index of capacity

utilisation which has recovered quite markedly since last autumn. This could be the planned sales/output levels in line with the onset of recession.

WENDIL	WORKING	· 4 m	onthly i	noving to	otal .		May 1980)
		Feb. May %	Jan. Apr. %	Dec. Mar.	Nov. Feb.	Elect. Eng'g.	Motor Vehicles Compo- nents & Distrib.	Stores Consumer ' Service Organs.
	Above target capacity	6	7	9	. 14	15		
	Planr 🚅 output	68	66	63	- 54	62	- 73	53
	Below ta apacity	25	26	26	30	20	27	43
,	. to answer	7	1	2	2	. 3	· –	4

STOCKS May 1980 Increase Stay about the same 34 .10 43 31 15

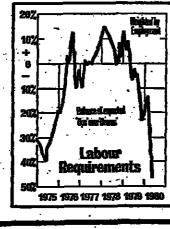
FACTORS	CURRENTLY AFFECTING	PRO	DUCT	ON				
		4 =	nonthly i	noving to	otal		May 1980)
		Feb. May %	jan. Apr. %	Dec. Mar. %	Nov. Feb. %	Elect. Eng'g.	nents & Distrib.	Service Organs,
	Home orders	80	76	73	.69	51	88	98
	Export orders	50	· 44	43	43	50	70	43
	Executive staff	9	12	11	9	41		
	Skilled factory staff	19	24	27	25	38	10	
	Manual labour	2	4	. 5	8			
	Components	- 6	11	11	15			 -
	. Raw materials	. 19	19	. 37	. 9	15		
P	roduction capacity (plant)	11		12	73			9
	Finance	2	2	2	2	2	4	
	Others	11	12	12	10			
	Labour disputes	26	372	35	31	23		9
	No answer/no factor	8	, 7	2	7	30	9	2

TSTMENT AND LABOUR

Big drop in workforce expected

EMPLOYERS OF more than half the labour covered by the survey expected their workforce to decline over the next 12 months. As a result, the index for employment prospects, which was already at a very low level, has slumped further, taking it beyond the previous low point seen during the 1975 recession.

Pessimism about the prospects for taking on labour was spread across all three sectors, with weakening demand rather than labour market problems cited as the main factor. The index covering prospects



for capital investment, which had been dipping sharply in previous months, recovered in May to around its levels of last autumn. Both the electrical engineering and the stores and services sectors were more inclined to increase spending

over the next 12 months. Fewer respondents than in the previous survey said that their liquidity levels were too low, bringing an improvement in this index too. Stores and consumer services were however more inclined than in January to say that they needed external finance for capital expenditure.

LABOUR REQUIREMENTS (Weighted by employment)

		.4	HALINE W	/Щ		ray 1700	J
Those expecting their labour force over the next 12 months to:	Feb. May %	Jan. Apr. _ %	Dec. Mar. %	Nov. Feb. %	Elect. Eng'g.		Service Organs.
Increase	6	15	16	22		27	12
Stay about the same	35	36	37	38	47	11	7
Decrease	53	43	41	35	53	68	87
No comment	6	. 6	6	5			

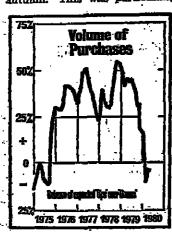
CAPITAL INVESTMENT (Weighted by capital expenditure)

	<u>4</u> л	4 monthly moving total					May 1980		
Those expecting capital expenditure over	Feb. May	jan. Apr.	Dec. Mar.	Nov. Feb.	Elect. Eng'g.	nents & Distrib.	Service Organs		
the next 12 months to:	%	- %	%	%	·· %	%	%		
increase in volume	. 30	26	28	26	17	65.	- 54		
Increase in value but not in volume	_ 22	19	15	16	55	4	16		
Stay about the same	14	12	7,2	17	3		29		
Decrease	32	.36	33	26	28	31			
No comment	2	7	72	- 15	3				

COST AND PROFIT MARGINS

Renewed pressure on profitability

autumn. This was particularly previously.



on account of a more depressed and by the durable goods indus-

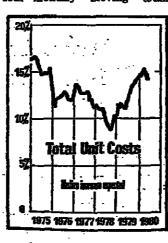
is still above the level of last 12 months, slightly higher than

Inflationary pressures from increased wages seem to be building up again, although companies report a continued levelling off of general unit cost pressures. The median expected increase in costs over the next 12 months is now running at just over 14 per cent against 141 per cent in the previous month and 15 per cent in March.

Expected increases in hourly wage rates are tending to converge in the range of 15 to 19 per cent. Companies report that they are now less willing to accommodate inflated wage demands from their workforces.

These surveys, which are carried out for the Financial Times by the Taylor Nelson outlook reported by the stores: Group, are based upon extensive and consumer services sector interviews with top executives. Toree sectors and some 30 try. High interest rates were companies are covered in turn mentioned as a principal factor every month. They are drawn depressing margins. Companies from a sample based upon the

The index for profit margins, say they will have to increase FT-Actuaries' Index, which which had been improving, has prices by a median rate of just accounts for about 60 per cent dropped back again, although it 10 months eligible highest than the companies. The all-industry figures are four-monthly moving totals



covering some 120 companies in 11 industrial sectors (mechanical engineering is surveyed every second month). Complete tables can be purchased from Taylor Nelson and

COSTS

· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	May	Apr.	Mar.	Nov. Feb.	Elect. Eng'g.	nents & Distrib.	Service Organs.
Vages rise by:	10-14%	% 11	% 13	% 17	% 18	%	% 19	%
	75-19%	68	64	56	46	77	74	. 51
	20-24%	13	14	76	14	-	4	23
·	25-29%						. 3	
	No answer	. 8.	. 9	11	72	21		26
	Median change	17.6	17.5	17.5	17.3	17.4	17.1	18,6
Init cost rise by:	1							
·	0-4%	4	5	5	1			
	5-9%	5	6	3	3	5	<u>_</u> _	
	10-14%	37	30	31	35	47	84	61
	15-19%	32	30	31	29	32	7	25
	20-24%	4	. 7	. 9	7			4
	No answer	18	22	21	25	76	.9	10
	Median change	14.3	14.7	75.1	14.8	13.9	12.7	13.7
			,					

PROFIT MARGINS

indian manany	:	and all regions						
		4 n	onchiy	moving to			May 1980)
Those expecting profit margins	over the	Feb. May	jan. Apr.	Dec. Mar	Nov. Feb.	Elect. Eng'g.	nents & Distrib.	Serv
next 12 months to:			. %	%	%	%	%	_ %
	Improve	43	46	36	32	32	4	77
Remain (28	27	34	40	47	69	39
	Contract	25	23	26	25	6	27	44
No d	comment	. 4	4	4	3	15		

LABOUR NEWS

Clegg'made error over nurses' pay'

BY OUR LABOUR STAFF

following its error over Minister teachers pay, the Clegg Com-mission. mission has made a further The report claimed the Com-mistake in its pay award to mission had made an error by Britain's 496,000 nurses, whose making its award on the basis leaders have warned of industhat nurses were already worktrial action over pay this year. ing a 371 hour week Commission officials yester-day strongly denied an error, as Glegg Commis did the National Union of yesterday dismissed the report. Public Employees, to whom the They said the award makes it report was attributed. But the allegation will do little to improve the already strained

industrial relations atmosphere in the health service. The report claimed the error had cost a staff hurse £247 a year. The total lost by all the norses could be as much as

Mr. Stanley Orme, Labour's bealth spokesman, yesterday said he would take up the alleged error with Mr. Patrick Jenkin, Health Secretary, today ing paid normally for working
If the allegation were correct, 371 hours, and paid a further £5 be would call for an immediate investigation. It would go a long way towards meeting the nurses justifiable claim, he said. Mr. Michael Brotherton, Con-

servative MP for Louth, said

HEALTH ministers are likely this latest piece of "crass to be questioned today in the ignorance" was a further commons on a report that, encouragement to the Prime Minister to abolish the Com-

ing a 371-hour week, rather than

Clegg Commission officials perfectly clear that pay rates had been set in the knowledge that the nurses working week is due to be reduced next year The report says there will therefore be no adjustment needed

when the working week Mr. Bob Jones, NUPE's nat ional officer for the health service, said the Commission had not made an error. As part of the move towards a shorter working week, nurses were be for 21 hours at "plain" time, which was not an overtime rate. The unions were still pressing for an increase above the 14 per cent allowed for by cash limits Leader, Page 18

TUC plans fresh initiative on laggers

BY PHILIP BASSETT, LABOUR STAFF

LEADERS OF the electricians and construction engineering workers' unions seem likely to come under strong TUC pres-sure this week to relax their stand in the inter-union dispute at the Isle of Grain power station site. The sub-committee of the

TUC's finance and general purment committee is likely. possibly today, to put forward fresh proposals to solve the wrangle, which concerns bonus arrangements for thermal insulation workers, or laggers.

The most likely proposal is that the committee will recommend that laggers represented by the GMWU retain higher bonus rates than those of skilled craffsmen, but that the level of their rates be progressively scaled dow nin future.

secretary of the AUEW coning to draw up plans for industruction section, said yesterday trial action by laggers at all uggestion would completely unacceptable." He was unsure of the power of the TUC General Council to

compel the two unions to accept

the GMWU's position, but added that the stance of both the GMWU and the TUC was becoming irrelevant.

The Central Electricity Generating Board was "thially committed" to levelling off the wages structure. This position was, supported by the Govern-Mr. David Basnett, GMWU

general secretary said yesterday, that he was confident that the TUC would again support his union. He has told Mr. Len Murray, TUC general secretary, that the TUC must inform the EPTU and AUEW that they must comply with the TUC's previous decision. He said it was intolerable

doing the work of GMWU members. Some 25 trainee laggers have been brought in at the Isle This proposal could face of Grain to take over the work opposition from the Electrical of the 27 GMWU laggers who and Plumbing Trades Union, were dismissed last year, and Mr. John Baldwin, general GMWU officials are continu-

trial action by laggers at all the CEGB's sites should no solution be reached in the Isle of Grain dispute in the two weeks' grace the GMWU has

Hoteliers turn down union plan

By Our Labour Staff

shire resort of Scarberough have rejected General and Municipal Workers' Union proposals which might have led to union recognition for bargaining purposes, the union said yesterday.

As a result, the union has reaffirmed its year-old boy-cott of the town, which was previously a centre for many union annual conferences. The union's keepness to

section, the Hotel and Catering Workers' Union, to belp its campaign. It has been holding exploratory talks with Scarborough hoteliers for some time.

week. Scarborough hoteliers refused to agree to union proposals for ending the boycott. The union yesterday said the hotellers were not prepared to say they would recognise it even if it secured bstantial membership.

NUT backs teachers in

HOTELIERS in the York-

recruit hotel workers mani-fested itself earlier this year

But at informal talks last

books row TEACHERS who refuse to take

part in efforts to persuade parents to pay for children's school textbooks have been promised the support of the National Union of Teachers. After disclosures that consideration is being given to raising funds to provide books, equipment and other facilities normally provided by local education authorities, the union has sent a note of guidance to its 662

divisions.

It says that fund-raising activities will not be sufficient or satisfactory to fill the gaps where expenditure cuts were seriously eroding important areas of the curriculum. "Such a serious situation should not be masked by parental efforts to paper over the cracks for fund-Peace talks will begin today

in the dispute in which Notting hamshire teachers have stage series of strikes depriving thousands of children of lessons. Leaders of Nottinghamshire County Council will meet repre-sentatives of the NUT to discuss the dispute over nursery class

Striking musicians discuss rival proms

BY ARTHUR SANDLES

BBC MUSICIANS, striking strike at midnight on Saturday because of planned cuts to BBC after the failure of talks in the orchestras, are being told that wake of BBC plans to cut five they cannot legally take part in -of its 11 house orchestras. a rival series of Promenade Concerts in six weeks' time if

London's Capital Radio and the Proms belong to the promen-Musicians Union. The BBC said last night that artists and musicians and the

Albert Hall-were all under contract to the corporation. "We intend to continue with the final preparations for the Proms to be relayed by BEC television and radio and we confidently expect that they will

BBC substituting records for live

Capital Radio's Aidan Day and the Musicians' Union assistthe strike is still on.

Alternative Proms are a possibility after talks between talks. Mr. Hibbert says. "The

If the promenaders saw that

an independent group was keen "to support the music in a way that the BBC is apparently not, then I am sure they would come along anywhere and give the Proms their traditional flavour." Capital's own willingness to support the Proms is joined by "We do not contemplate any radio stations and some indi-

aders, not the BBC."

The problem of organising a series of concerts in such 2 rearranging its programmes and short would be considerable. and the legal difficulties X serious obstacle.

FINANCIAL TIMES SURVEY

Monday June 2 1980

Canadian Banking and Finance

The Canadian chartered banks, a well-established power in international finance, face a double challenge this year: recession will make profits hard to earn, and a new regulatory act will bring more competition on to their home ground. In particular, it will allow foreign banks to set up subsidiaries in Canada which will enjoy full banking status.

Outlook in short term

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unclear

By W. L. Luetkens

tical problems remain to plague Canada and its financial institutions after the defeat of the Quebec referendum on a mandate to negotiate sovereignty for the French-speaking province. But for the moment it hes removed the single most worrying uncertainty on the enadian horizon.

On the other side of the ledger, the short-term economic outlook remains murky, how-ever strong Canada's underlying position may be as a net expor-ter of energy.

A recession is in prospect and, indeed, may already have begun. It will bring new problems for the chartered banks and similar institutions which were caught in an uncomfortable squeeze on spreads in the closing months of the 1979 and the beginning of the current calendar year. Banks countered by expanding assets, and world

Quebec referendum out of the

It remains vulnerable to any renewed increase of U.S. interest rates. The U.S. recession is going to cut into export demand for Canadian goods, reducing the normally substantial merchandise surplus.

Energy policy remains the most immediate problem of economic management in Canada. A decision to increase deliveries of natural gas to the U.S. would immediately benefit external payments. But Ottawa seems to have decided instead to seek the more distant (though perhaps more substantial) benefits of import substitution. That will require pipelines to be built to carry gas to the East and reduce its oil imports.

Even the Quebec referendum has not removed all uncertainties from that area. The pro-vincial Government of Mr. Rene Levesque is unlikely to take its defeat lying down. Moreover in some other pro-vinces, too, there is pressure for devolution—an idea not necessarily popular with banks and other businesses operate Canada-wide.

The one point to be quite clear about is that regardless of the outcome on May 20, the argument about the future of Quebec, and indeed about the constitutional future of Canada, will continue. Not only Quebec is restive: the West, newly wealthy as a source of oil and natural gas, is also champing at the bit, demanding more power for itself and the right to refuse to share its riches with the manufacturing provinces of central Canada.

unionism in banking is small beer. On the whole the way, but is not out of the woods banks have successfully resisted

unionisation, which requires a majority vote in each branch

this with a number of devices: in one case wage increases were withheld from branches where the union had won its vote, though the National Labour Relations Board quickly put an end to that. Fewer than 100 of the roughly 6,000 branches of the Canadian banks have so far voted to be represented by a union.

On the economic front the immediate outlook for business is poor. Canada did quite well last year, with growth of GNP of 2.9 per cent, helped by an excellent performance in export markets and by strong growth of investment in plant and equipment. For this year a good deal less is in prospect as commodity prices stabilise or even fall and as the U.S. goes

Subsidise

Canada's inflation rate of less than 10 per cent last year was lower than that of the U.S. though the figures are somewhat misleading. Canada, for instance, is heavily subsidising the domestic oil price so that the increase of energy costs is showing up in people's tax bills rather than in the Consumer Price Index. Nevertheless,

possible for a while early this year to keep Canada's shortbusiness, but loan demand is central Canada.

now likely to recede.

By comparison the long
The Canadian dollar is look drawn out argument about term interest rates below those prevailing in the U.S. without burting the exchange rate of the Canadian dollar. Heavy inflows of direct investment funds into

GROWTH OF THE CHARTERED BANKS

	Total assets	Foreign	exchange
		Assets	Liabİlities
1970	47,307	13,691	13,533
1971	54,428	14,469	14,162
1972	63,222	16,572	17,018
1973	79,754	23,298	24,577
1974	97,015	28,534	29,353
1975	108,378	31,209	31,461
1976	126,403	37,614	38,303
1977	150,477	47,658	48,664
1978	189,100	66,972	68,700
1979	229,151	81,865	85,024

Figures for year ends.

Ontario.

the fact that the steep reduc-

Loan demand from industry

is unlikely to expand this year

as it did last. The same goes

especially housing. There is

ominous news of heavy layoffs

These are all mainly short-

term considerations. In the

longer term, growth on the

scale of last year's appears per-

fectly feasible. But much of it

will be derived from the huge

energy projects in the planning

or discussion stage. These in-

clude a pipeline to move

Alaskan gas to the main U.S.

markets and to pick up western

Canadian gas on the way; more

of the gigantic plants required

energy and other commodities, the cyclical peak of interest that possible -- but rates. But they will have to face possibleonly within limits. Canadian rates had to follow the worldwide climb of rates harbingers of recession. last year and in the opening

caused difficulties throughout the various finan- for the consumer sector and cial institutions. Mortgage rates Canada are traditionally renegotiated only once every five years and the interest rates on consumer credits are not especially elastic for both technical and political reasons. As the costs of re-financing went the banks, and especially trust companies, were caught in a squeeze on margins

which cut into profits. trust companies explained in the article of this survey dealing with them) were especially hard-hit. Bankers, mainly too, were eagerly waiting for the Bay of Fundy in Nova

to extract oil from the oil sands

of Alberta; and perhaps a power

And that is not all. Oil has been found off the coast of Newfoundland, though the quantities are not yet known; there is gas in the Beaufort Sea and the Arctic Islands. Altogether the financing need will run into many billions of

But first there has to be agreement on an energy policy, and more particularly on how to raise the domestic price of oil closer to world levels—and how the proceeds are to be shared between the federal Government, the provinces and the the

Holdups occur. Certainly the govern-ment of Mr. Pierre Trudeau, which returned to power in February after eight months in especial tenderness to business. A mini-budget in April imposed corporate income taxes what, from a cyclical point of view, may have been the very worst moment possible.

Business is also uneasy about the federal deficit. As things stand about C\$12bn will have to be borrowed during this Things have not been helped by high interest which caused many savers to cash in their savings bonds in favour of higher yielding securities.

Moreover, during the election campaign Mr. Trudeau injected nationalism into his playing on traditional suspicion of the U.S.-owned multimultinational companies control Canadian economy.

But this nationalist element has not touched the banks since the last revision of the regulatory Bank Act took effect in 1967. That revision in foreigners controlling Canadian banks; now they are to be let Trust companies in again by a further revision expected to have been passed

sed is that foreign banks shall be permitted to found bank subsidiaries in Canada which, together, will allowed to take a share of up to 8 per cent in the domestic lending of the Canadian banking system.

by July or at any rate the end

Flourishing

On the strength of present figures that would allow affiliates of foreign banks established in Canada to double their business volume. For it needs to be noted that foreign banks, though they may not found banks in Canada under the present regime, are entitled to gursue much if not all of the business of banking provided they do not use that term.

Some of them were adopted in the Bill tabled last year by the Progressive Conservatives

owned near-banks (or non-bank financial institutions to give the technical term) are in existence and seem to have been flourish-

To offer them the full status of a bank—something that is jealously guarded in Canadais intended to do two things. It is intended to bring some extra competition into the banking oligopoly and it will also make it easier for the federal authorities to keep tabs on the

The initial proposal was made in a White Paper of 1976 proposing an entirely revised regubanks. The next phase was a Bill tabled in 1978 under Mr. Trudeau which never got through the Parliament though both houses proposed a series

Their Bill, with a few changes has been re-introduced by the new Liberal Government. Under these circumstances

the Bill is likely to get an easy passage from the two main parties. The social democratic New Democratic Party may be more critical, and everyone may take the opportunity to complain about high interest rates. But that is not expected seriously to delay the Bill. The foreign near-bankers should be lining up for bank status proper late this year or early in 1981.

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Energy investments expected to double

CANADA IS entering an energy Portfolios of the lending ernment. The Energy Minister, until 1987 as full bore constructions which will cause energy institutions may become top Mr. Marc Lalonde, hopes to tion of the plant is being held mainly because of the heavy. Association, to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy. Association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy. Association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy. Association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy. Association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy. Association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to bring a minibe mainly because of the heavy association to be mainly because of the heavy association to be mainly because the minibe mainly because the heavy association to be mainly because the m

A recent study by the Royal Bank of Canada — judged by economists at the federal Department of Energy, Mines and available — puts total require—expected to allocate increasing ments in the period from 1979 flows of domestic savings to its to the end of the century at own energy projects and Mr. C\$1,400bn (£516.6bn), of which Waddingham says that the about C\$350bn will come from

Of the total amount, Mr. Daryl G. Waddingham, senior energy adviser at the Royal Bank, estimates about threequarters of the investments will e made in the last decade of the century and only one quarter this decade. His forecast of requirements in the 1980s is almost identical with an estimate prepared a year ago by Toronto-

whether this schedule can be adhered to. The Royal Bank says succinctly that the size, scale and technological complexity of many of hte projects that will be mounted by the energy developers present financial institutions with "difficult and

Furthermore, even though foreign financing may be needed for only 25 per cent of Canada's energy financing requirements, Resources to be the most it may be harder to obtain than authoritative estimate publicly in the past. The U.S. is expected to allocate increasing Waddingham says that the ability of the U.S. to sustain large-scale capital exports is suspect. Thus Canada might find itself turning to Europe or whatever market OPEC oil dollars are being recycled in for an increasing share of its financing.

cover about 79 per cent of The question that must face Canada's current account deficit Canadian energy planners is in the 1980s but only about 67 per cent in the 1990s because the current account is expected to deteriorate severely in the latter decade.

Forecasting probable capital flows to the energy sector, particularly to petroleum and coal, is being made more diffi-

portion of GNP over the next energy investments and techno- the Canadian oil industry from portion of GNP over the next energy investments and technotwo decades. Foreign capital logical and market risks may about 75 per cent today to Government and Alberta over markets will be called upon-to dictate the need for governproduce about 25 per cent of the mental guarantees, financial confinancing required each year.

The sums needed will be huge.

The sums needed will be huge.

The sums needed will be huge.

The canadian on moustry from the canadian on moustry from to down the company, the teneral and neavy oil projects—it will taxes and royalties. The Alaska C\$170bn, of which C\$30bn might come from offshore.

The sums needed will be huge. to result in outflows of energy sector capital during the 1980s.

Mr. Edward Brown, legal adviser for Dome Petroleum, the Calgary company spear-heading the Beaufort Sea oil exploration effort, suggests that the problems of financing new large-scale energy projects require new laws and regulations which will permit the development of new means of project financing. At current high interest rates, he suggests some form of after-tax financing is required.

Mr. Brown and other legal experts on energy financing cite a number of problems facing Canadian projects. Jurisdictions often overlap, securities regula-tions are not the same from one Canadian province to the other, U.S. law may be applied extraterritorially in certain cases and obtaining regulatory approval for projects is uncertain, costly

The experience of three of the major energy projects now being planned support gloomy Alsands tar sands plant, being planned by consortium cult by the policy of the headed by Shell Canada, will

latory go-ahead in both Ottawa and Washington. And the environmental hearings Imperial Oil's heavy oil project at Cold Lake were held up for several months so that local farmers could plant and barvest

Self-sufficiency

But while hydrocarbon projects receive most of the atten-tion—and the Canadian Petroleum Association warned recently that Canada will not meet by 1990 its goal of self-sufficiency in oil if projects are slowed down unduly in the first half of the 1990. half of the 1980s—they are not it is not clear whether governthe largest users of energy capital. Electrical utilities will take half the total requirement or about C\$710bn to the end of the century. Of this about C\$200bn will come from foreign sources, about C\$300bn will come from Canadian debt markets and the remainder will

be generated internally. Oil, gas and coal will take the second largest amount of capital-an estimated C\$530bn. Even though the industry will generate

bution systems as natural gas is substituted for oil and the building of new oil and gas pipeline projects are each expected to take about C\$80bn to the end of the century. About C\$34bn is expected to come from foreign sources. The Polar Gas Pipeline project would altogether add about C\$47bn to Canadian energy development in the next two decades.

While bank and government economists prepare their pre-dictions of the heavy investment schedule for Canadian energy development in the last two decades of the century based on their forecasts of probable output of the major energy sources, ment is capable of making the policy decisions necessary to mount such a large-scale development effort.

The goal of Canadian selfsufficiency in oil by 1990, a target set by the short-lived Clark Government, would require a massive effort. While the Liberals still hold to selfsufficiency as the goal, Mr. Lalonde has dropped all mention of a specific date by which

price tag on such development, longer gets the world oil price.

is \$260m in the 1980s. Fro mthe industry viewpoint, the key to development is gov- to the Canadian consumer and ernment policies which ensure to head off high profits will that adequate production mean that the Government will revenue remains availabel to put the oil and gas business in the industry initially to plough back into the development of new supplies. The oil price understanding that was worked out between the Clark Govern-ment and Alberta which would have given the industry a cash flow of C\$33bn to 1984 was seen as providing a good basis for development.

Uncertain

The industry though is un-certain whether it will get the same generous treatment from the Liberals, who came to office on the campaign pledge that oil price increases under a Liberal those agreed to by the Tories.
Mr. Lalonde appears interest on
fine-tuning the industry by instisystem that would set prices to producers for each type of domestic oil on a rate of return

up pending an agreement among debt ratios of tar sands plants mum of 500,000 barrels of oil by Mr. Lalonde to enforce a industry. More debt capital the company, the federal and heavy oil projects—it will a day on from frontier regions, force majeure clause in the than currently forecast would widespread initiation of en-royalty and taxation agreement be needed as the industry hanced recovery schemes, maxi- with the Syncrude oilsands moved away from its traditional mum development of heavy oil plant. The Government will re- ratio of about one-third outside and oil sands and effective con-negotiate the pricing agreement straint of demand. The CPA's with the plant so that it no

The fear is that the Liberals' desire to hold down oil prices put the oil and gas business in Canada on a public utility basis. Not only is such a philosophy foreign to a high-risk business like oil exploration and develop

financing.

of about \$1 a barrel a year from domestic oil price increases would be siphoned off. The bank would have financed energy development across the

Trust groups hard hit by interest rate

THE BELEAGURED managers who are surprised to discover

The squeeze in which they were caught derived from the precipitate rise in interest rates in North America. Rates have now begun an equally steep

Over and above that, the long-prophesied North American recession appears to have begun and is likely to cut down demand for housing in Canada. In effect both the recession and the preceding period of high interest rates have been very bad for the basic business of the trust companies which is to lend people money

cut back the spreads for everybody. were at their worst much of diversification. Royal has moved the trust company industry into banking in Florida in a actually withdrew from this sort substantial way, buying up banks in the state. Canada

Such reluctance to do business is a far cry from the normal battle for market share. But it is a direct result of what the

sion from depressed levels. It came as the climax to a long

In its annual report for 1979, Canada Trustco Mortgage reminded its shareholders that the rate of interst paid on its personal savings accounts was raised five times in the year, to 12 per cent from 9 per cent. Subsequently it went even

The 1979 increases helped

This kind of experience throughout the industry contri-

Within this overall pattern

create a Canadian enerby bank to which new federal revenues

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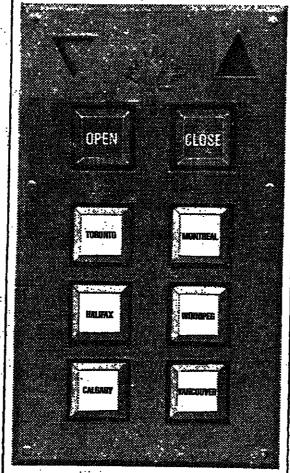
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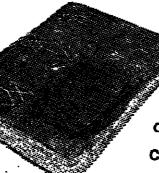
We also have the Money Desk,[®] lock box service, zero balancing and many other Cash Management tools available to meet your special needs.

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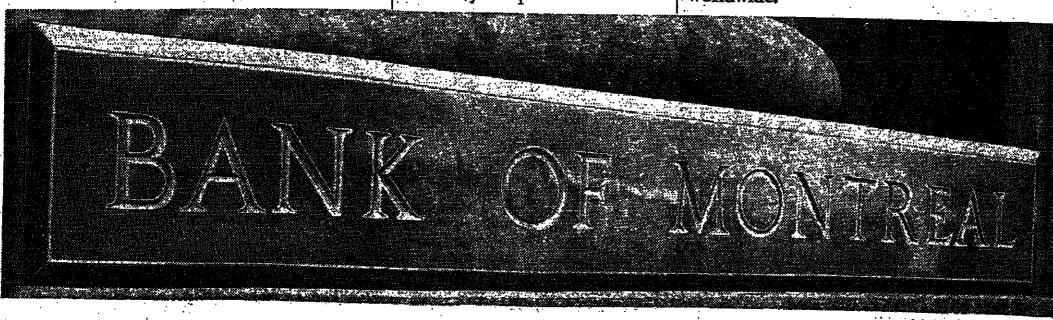
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of Canada's trust companies formance closely match the endured the first few months degree of interest-rate sensidegree of interest-rate sensiof 1980 in a state reminiscent of tivity inherent in each prisoners under interrogation pany's mix of assets and liabilities, not relative sizes. Among that the latest torture has not the big three, Canada Trustco yet finished them off, and suspect that the next one prob of 24 per cent. This contrasted with the modest increases The squeeze in which they shown by close rivals Royal

For years they have fought

a losing battle to maintain a comfortable spread on which to live. They used to have the

residential market pretty much to themselves, but in recent

times the banks have moved

aggressively into this area and

Some companies have tried

Trustco recently began moving

into the banks' home territory by offering commercial loans directly. Many of the companies are trying to build up their consumer loan business.

There have been some notable

mergers. A group that had the major shareholdings in Victoria

and Grey Trust and in Metro-politan Trust fought off a raid from outsiders, then put the companies together as VGM

The marriage has had its difficut moments, principally because of the difference between

Metro's freewhelling manage

ment style and the more conservative approach of the vener-

Trusteo.

Canada's trust companies run a classic financial intermediary operation. Most of their profits downward course. But there come from the basic mortgage is no certainty that rates may spread business, with deposits not undergo an at least teminvestors with one hand and lent with the other hand against

At times while pressures

Reluctance

This seemingly manoeuvre occurred as North American mortgage rates soared to formerly undreamed of levels. Some companies opted out altogether. Others discouraged customers from taking on anything more than renewable one-year deals, as against the previously usual five years. One company began to promote a previously unheard-of six-month renewable mort-

Governor of the Bank of Canada, Mr. Gerald Bouey, recently described as an "astonishing" series of interest rate jumps in the early months of the year.

What is perhaps more important for the health of the industry is that this year's breathtaking acceleration of the upward movement of interest rates was not a sudden exploseries of repeated, although more moderate, increases.

higher.

reduce Canada Trustco's effec-tive interest rate spread last year to 1.54 per centage points, from 2.12 points in 1978.

Damage

buted to an over all 17 per cent drop in operating profit of the 10 large publicly-traded companies in their fiscal years ending in 1979. Interestingly, it only partially reflected the dramatic rise of interest rates during the fourth quarter of the calendar war herause two of calendar year, because two of the 10 have fiscal years ending October 31. The worst damage from the final quarter is yet to

panies, but none could be said to have done well. The performances ranged from a 53 per cent profit decline for the smaller Nova Scotia Savings and Loan to a 3 per cent gain for the largest company. Royal Trustco. But the latter and market which so Canada Permanent, which from ten tradition Canada Permanent which registered a 1 per cent increase, were the only two to show any gain on the year, however

able Victoria and Grey. VGM took some big writeoffs for actual and potential loan losses last year as the Victoria and Grey philosophy and management prevailed. Marketing style

A Quebec group. Prenor, is consolidating its control of the big Trust General du Canada, which itself acquired a majority interest in smaller Sterling Trust of Toronio. Meanwhile, a western-based

group acquired control of Toronto-based Crown Trust from a rising young financier. Mr. Conrad Black. Crown was probably the most traditionally-minded of trust companies, but its marketing style has been noticeably lazzed up by the new-Despite all this, the principal influence on the companies' bottom line is still the interest

rate cycle, with varying effects on the companies according to their ability to manage their individual asset and liability mix . The fivelyear mortgage (bearing an unchanged interest rate for those five years) has been the basic staple for many years. It was developed in the late 1960s when increasingly volatile in-

terest rates made the 20-year fixed rate mortsage unpopular. These days, however, even five years seems too long, when interest rates climb two or three points in a quarter, companies withis lot of fixed-rate five-year Within this overall pattern assets financed by much shorter there were wide variations in term liabilities, get bedly the fortunes of individual companies, but none could be said more than half of the new fursities have done wall. ness has been in mortgages with terms of less than five years, as companies sought to reduce

One helpful factor last year was the booming Canadian stock market, which swelled income from teh traditional stock trans-Another was the charply-

lower tax bills experienced by companies that bought ficating CONTINUED ON NEXT PAGE

CANADIAN BANKING AND FINANCE III

Profits of chartered banks slow down

THE CHARTERED banks of Canada, the country's largest financial institutions, with a well-established international presence, are recovering from a bad start to the current year. came under pressure. which bas eased with the steep decline of interest rates, but ssion will cut loan demand.

plans to plans to perby bank I revenues year from increases off. The

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increases

On the regulatory front, the year will probably at last pro-duce a new Bank Act it should have come into force in 1977, but has been delayed for a number of reasons of a political nature. When it comes, the new Act will slightly extend banking powers to include factoring and leasing. It will also allow foreign banks to set up banking subsidiaries in Canada, a matter dealt with elsewhere in this

Rather paradoxically, bank profits have become something of a political issue in Canada at the very moment when their growth has been slowed down sharply. In the year of account to October 31 1978 profits of the chartered banks as a group went up by more than a third.

They were pushed along by the decline of the Canadian dolfar, as a result of which the considerable U.S. dollar assets of the banks appreciated in terms of Canadian dollars; and by a tax-saving device, the so-called loan substitutes. These were floating or fixed rate preferred shares, the yield of which is tax-free to Canadian corporations, which the banks took into their portfolios in place of straightforward commercial

Topical

That loophole has been closed and the exchange rate has been a good deal steadier. Last year profits rose by only

13 per cent and little more is on spreads so far has been counteracted by increasing assets and international business. But the period of high interest + made ... bánk : profits topical. One Cabinet Minister has spoken publicly of the National and Provincial Bank of possibility of an investigation, Canada, whose business is to a ant his views are not appar great extent concentrated in ently shared in the Ministry French-speaking Quebec. The of Finance, under whose re merger in due course should

the chartered banks rist interest rates proved a cause of problems rather than one of joy. A main reason is the relative inelasticity of interest receivable from consumer loans and mortgages, which play an important role in the banks' portfolios. About one third of their outstanding general loans are personal loans, and mort-gages account for 8 per cent of their assets.

At the same time the banks' customers have shifted money from non-interest-bearing cur-rent accounts into savings and Reposit accounts. Under the year. As a result, first-quarter pressure or competition for profits at National Bank during funds, partly from trust com- 1979-80 were only a fraction of funds, partly from trust com-panies, the chartered banks have been moving towards pay-ing interest on what are to all intents and purposes current

For instance, this spring one bank began to offer free cheques and 3 per cent interest on a type of savings account, provided a minimum balance of C\$200. (about £76) is maintained. Interest is calculated daily-not on the lowest balance during any one month.

Given the oliogopistic struc-ture of the Canadian banking industry, where one bank leads the others are almost sure to fellow, though each one may offer its own special variations.

These, then, are the reasons why spreads narrowed during the rapid rise of interest rates

PERFORMANCE OF MAIN CHARTERED BANKS

		Average assets	Net financial spread	Balance of
		(C\$m)	(%)	(C\$m)
Bank of Montreal	1978 1979		2.97 2.53	193.5 228.7
Bank of Nova Scotia	1978 1979		2.66 2.32	153.9 180.9
Toronto Dominion	1978 1979		2.53 -2.22	129.2 160.4
Canadian Imp. Bk. of Commerce	1978 1979		2.68 2.27	193.5 201.3
Royal Bank	1978 1979		2.81 2.36	233.9 270.7
Mercantile Bank	1978 1979		1.77 1.68	18.0 23.3
Bank of British Columbia	1978 1979		3.28 2.78	5.3 6.7
National Bankt	1978 1979		2.83 2.27	48.6 32.7

The banks' years of account end on October 31.

* Balance of revenue after tax. † Figures recalculated from Bank Canadian National and Provincial Bank which have merged as National Bank of Canada

Brazilian banking affiliate with

assets equivalent to U.S.\$320m.

had the highest return on share-

holders' equity among the Cana-

dian Big Five. But it also has

made greatly-increased pro-

It says they are intended to

prepare for the possibility of

increased losses arising from

consumer loans as the recession

begins to hurt. (These pro-

visions do not accurately reflect

actual loses: they are based on

a five-year average and by them-

selves provide little evidence of

what is going on. But sudden

changes do indicate that some-

thing has gone wrong, or that

there is at least a danger of

The danger of loan losses in

recession is evidently not peculiar to the Bank of Montreal. So another question

believed to be closer to C\$300m

than C\$400m, which is a small amount when compared with

the chartered banks' aggregate

is a regular Canadian ritual: in

have expired in 1977, but prepartory work took longer

than expected and two elections

one in 1979, one last February

further held things up. The general pattern of the proposed legislation has not changed

greatly since the White paper of

1976. Before going over some of the detail it is best to look

at the Canadian banking system

multi-branch banks entitled to business throughout the country

(and abroad). In general they

are confined to banking of

similar activities: they are thus quite unlike the universal banks

of the German-speaking world

for instance, with their wide-spread industrial holdings.

The current Bank Act entered

into force in 1967. It brought about a far-reaching change by abolishing a 6 per cent limit

previously imposed upon the interest rate banks were allowed to charge. That opened up to them the field of consumer

credit, which proved to be an

The Bill tabled this April is unlikely to have effects quite

as far reaching. (The decision allow foreign-owned bank

subsidiaries has in practice already been anticipated: the

foreign banks are established in Canada through affiliates which engage in many forms of bank-ing, but may not describe them-

The main new activities which the Bill proposes to open up to

the banks are leasing and fac-

toring. Leasing is restricted to

financial leasing proper, and the banks are not to be permitted

to direct the lessee to a par-

ticular supplier of the goods to

The banks are trying to

reverse a defeat in the original hearings when they were

refused the right to increase

mortgage lending above the existing ceiling of 10 per cent of deposit liabilities and

They were also refused the

right to sell data processing

without any restriction. Such services will have to be

bank-related," and the onus to

prove the relationship is on the

bank. An obvious possibility is the making up of payrolls on behalf of corporate customers.

The entire system of reserves which the chartered banks

important growth area.

elves as banks.)

in general outline.

Question mark

well under control.

assets of C\$230.5bn.

visions against loan losses.

Bank of Montreal last year

This source of pressure eased as interest rates fell in May ibly. The latest instance is an though many analysts believe that rates may switch back at least temporarily. The change coincided with a recession in the U.S.-which Canada may undergo in more moderate form but cannot avoid. Loan demand will suffer, so that little can be expected in the way of asset growth in the second half of 1979-80.

But last year's asset growth will work in the banks' favour so that the last quarter's results should be good. For the year to October 31 analysts forecast expected in 1979-80. Pressure profit growth roughly like last year's, with a good 1981 to

Last year was notable for the merger of the two so-called French banks, Bank Canadian Canada, whose business is to a sponsibility banking comes permit economies to be made mark hangs over the profitThe fact of the matter by the elimination of certain ability of the Canadian banks, appears to be that for most of duplications, but for the at least this year. One particular moment it has contributed to special situation appears to be the costs of the National Bank of Canada as the new bank is amount at risk in Iran is

> Besides rationalisation there were other reasons for the merger. Bank Canadian National held 30 per cent of its assets in mortgages and consumer loans and was thus caught early in the squeeze of theory it takes place every 10 rising rates. Moreover the bank years, but delays are not unformed by the merger, National usual. The current Act was to formed by the merger, National Bank of Canada, found it necessary to add considerably to loan loss provisions after reviewing its loan portfolio early this what the two unmerged banks had earned together 'a' year

Squeeze

Profits have also taken a tumble at IAC, a finance comtransforming itself into a chartered bank as Continental Bank of Canada. Here, too, the costs of transformation have proved heavy and the company has been caught in the squeeze between rising money market rates and the return on its consumer leanding. Both IAC and Bank National evidently stand to profit from the arning around of interest rates once it has firmly come about

Probaby the most aggressive tactics have come from the Bank that were set off by anti-tactics have come from the Bank inflationary measures in the U.S. of Montreal which has expanded

Trust groups

CONTINUED FROM PREVIOUS PAGE

rate term preferred shares of out of taxable income to shelter. Canadian corporations from In addition, there will be very banks that originally acquired few new issues of this type them. No tax is payable on divi- because of changes in the tax dends paid fom one taxable rules. Canadian corporation in an So the 1980 outlook for trust other. These purchases also in companies, big and small, creased the proportion of float depends more heavily on ingrate assets on the balance interest rate movements than in sheet, and helped offset the interest cost squeeze on fixed-date

Neither of these factors well be as important this year, if seems. Canadian stock prices, after a rollicking January and Pebruary, have tunibled sharply. They may recover some ground, but it seems unlikely that they industry will want to forget.

slaked because they are running

many recent years.

If the peak has been passed and rates move down quite sharply in the second half, the industry may not do all that badly. If the top of the cycle is delayed, however, or if rates come down slowly, this will probably be a year that the will sustain men strength in For some of the weaker bretha year that should see the onset Fen particularly the small trust
of a substantial economic reces companies entirely dependent
sion in the U.S. on the residential mortgage
of companies have had their to oblivion.
thirst for the term preferreds. Hugh Anderson

Hugh Anderson must maintain with the Bank of

Canada will be revised once the Bill is in force. The overall effect will be to reduce these non-interest-bearing reserves. The precise amount will depend upon the composition of bank portfolios, but if the new formula is applied to the banks' present mix of liabilities, about C\$1.5bn or a third of the present reserve liability will dis-

To the chagrin of the banks, reserve requirements will for the first time be applied to foreign currency deposits made by Canadians and booked in Canada, though there is nothing much that can prevent a bank from booking these deposits at a branch abroad.

Monopoly

The banks' present monopoly over the clearing system is to be abolished. Instead there is to be a Canadian Payments Association to handle clearing and prepare for the eventual intro-duction of electronic fund transfer including, on day, point of sales outlets. Installed in retail shops, these would permit the instant transfer of the amount of a customer's shopping bill from his account to its international business forcthe shopkeeper's.

Membership in the association to be open to financial institutions other than banks chiefly trust companies and credit unions. The banks wanted to subject them to the duty to maintain reserves with the Bank of Canada. but they will, instead, be allowed to maintain working balaces elsewhere which will bring the interest.

Oъ the face of it that unfair, but the trust companies argue that they deal with longer-term deposits than the banks generally do and also maintain higher capital ratios.

All in all, therefore, the Bill fits in with the declared intention to encourage more competition. But the changes proposed are cautious and the giants the industry are too well established to make profound

W. L. Luetkens

Landesbanken and Sparkassen

Introducing the 4 basic strengths of Germany's largest banking sector:

Size. The Savings Banks Organization is Ger-

many's largest bank grouping with a combined business volume of almost DM 800 billion-a market share of some 40 per cent - and more than half of the nation's total savings depo-

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through their own offices, participations, and correspondent links in the world's major financial centers.

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dem with the Landesbanken. Landesbanken in Germany are also universal banks specializing in wholesale banking services ranging from commercial and public-sector lending, proiect finance, and foreign trade finance to portfolio management, security dealing, and international finance - often arranging or participating in syndicated Euroloans and Eurobond issues. For refinancing purposes, the Landesbanken are authorized to issue their own bearer bonds. For more information on Germany's largest banking sector,

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Foreign bank subsidiaries close to gaining full status

A BILL enabling the financial are in the lead, followed by two affiliates of foreign banks to be corporations owned by Chemical given bank status in Canada Bank. looks at last like becoming law Easily the biggest Europeanthis year. Two previous bills owned near-bank established in looks at last like becoming law fell by the wayside when Parliament was dissolved in the spring and again in the winter

It sems now that the Bill will go through in time fore the first foreign bank subsidiaries to receive their licences from the Minister of Finance late this year or, more probably, early in 1981. The queue will be a long one: more than 40 applications are expected, nearly all of them on behalf of near-banks already established in Canada.

As such they may engage in most forms of banking, but may not call themselves banks. Nor do they have access to the Bank of Canada as lender of last

Phenomenon

With few exceptions these foreign-owned near-banks are in the wholesale market and probably intend to stay on that side of the business. While small when compared with the size of the Canadian chartered banks, the foreign-owned institutions have been growing apace. At the latest count foreign-owned near-banks had aggregated assets of C\$6.4bn (£2.36bn). They had increased by 42 per cent within a year as the foreign-owned institutions jockeyed for position in expectation of being permitted to operate as banks

Whereas these figures are an accurate reflection of the rough size of these near-banks, and even more of trends, they entirely ignore the phenomenon of the so-called suitcase bankers. These are men who work in Canada on behalf of foreign, largely U.S. banks, without establishing a corporate pre-

sence in Canada at all. The size of this business is by its very nature hard to tell. Estimates have been published that foreign banks, through tions financing themselves on near-bank affiliates and suit-case the money market but not taking bankers, have a share of 12 per cent in commercial lending in Canada. But that figure should be treated with reserve.

By far the largest of the foreign near-banks established in Canada are U.S.-owned. Citibank's two Canadian affiliates

Canada is Barclays Canada which has just topped the C\$500,000 mark in assets and has raised capital to C\$35m plus retained earnings of C\$6m. Smaller but noe the less sizeable presences are also maintained in Canada by National Westminster, Standard Chartered, the Midland, and Lloyds.

Given that these and other foreign banks are in fact already operating in Canada, though not with bank status, it is re-markable to ask why the majority should be planning to apply for bank licences once the law allows it. There is nothing in the proposed legislation that would necessarily terminate their continued existence as near-banks

The answer is that several incentives for applying for bank status are built into the proposed legislation. In the first place it says that foreign banks shall not undertake banking business "directly or indirectly in Canada; except through a licensed foreign banking subsidiary.

The word "indirectly" was written in, in an attempt to catch suitcase bankers. It is accepted in Сапада that this provision will remain more or less a dead letter if any foreign bank decided to ignore it.

Ottawa has not interest in making too much of an issue here, since Canadian banks also ply the suitcase trade, in their case largely beyond the U.S.

Licence

Sultcases apart, the Bill says that the affiliate of a foreign bank in Canada may not both make loans and accept deposits transferable by cheque or order unless it has a bank licence. In the main that would hit intending retailers. Instituthe money market but not taking deposits would escape.

The most powerful reason for applying for a bank licence is a provision that a foreignowned financial institution shall not be allowed to borrow with the guarantee of its parent bank unless it itself has Canadian

bank status. The absence of such a guarantee would make its borrowing more expensive in the highly-competitive money

The reasons for applying for a licence have been discussed here at some length because the regime proposed for foreign-bank subsidiaries, or Schedule B banks is in certain respects restrictive, and will be operous in some cases. For a start, the Schedule B banks will be limited to a share of 8 per cent of the domestic lending of the entire Canadian banking

On the strength of the present figures, that would allow the foreign - owned institutions roughly to double their present aggregate size.

Approve

The original intention to limit each Schedule B bank to domestic assets of at most \$500m has been quietly dropped The proposal now is to fix the limit at 20 times authorised capital. No maximum figure is explicity laid down for the latter, but the Minister of Finance will have to approve increases from case to case.

Schedule B banks as well as their foreign parents will be forbidden to own more than 10 per cent of the shares of Canadian non-financial corporations. (A similar ruling already to Canadian-owned banks.) Where such holdings already exist they will be legiti-mised by "grandfathering." This provision could cause problems for Continental style universal banks. But one British bank, the Midland, is also affected.

The Midland owns the Thomas Cook travel bureaux in Canada, which will be grandfathered. But there is no clear answer yet to what will be done about Cook's travellers' cheques. If they are deemed to be a banking operation, they could perhaps be integrated into the Midland's Canadian bank affiliate once it has received its licence as a bank.

A key provision of the proposed legislation demands that before a Schedule B licence can be given the Canadian anthorities must be satisfied that

the regulatory body in the home country of the parent bank grants reciprocity to Canadian banks both in law and in administrative practice. That could cause difficulties both in Japan and in Switzer-land. In the case of Britain

no difficulties are expected. The granting of Schedule B licences is a matter within the discretion of the Minister of Finance, and a safeguard has been built in to ensure that reciprocity granted by other countries is maintained in fact as well as in theory. Licences will run for a maximum of three years at a time. They can be renewed, but do not have to be So there is a threat that a licence may be allowed to lapse:

only it would be a very bulunt instrument indeed, to be used only in extreme circumstances

From the point of view of the Canadian authorities, the purpose of the reform is a dual one. First, the Bill is clearly intended to bring the foreign-owners near-banks under the control of the central Government in Ottawa and its institions, the Inspector-General of Banks ,and of the Banak of Canada as the authority over

monetary policy. Not that they have been uncontrolled so far, provincial rules apply to them, and in some cases capital ratios have been more stringent than they will in practice be for a Schedule

Competition

Second, within the limits outkined, the Canadian Government is adhering to the objective originally outlined in a White Paper of 1976 which called for for more competition in bank-

Altogether ,the legislation as now tabled does not differ greatly from the original White Paper. Changes made by the Prfogressive Conservative Government which was in power from May 1979 until February 1980 have been incorporated in the Bill as it now stands. Technical changes only have been made in the Tory Bill.

Under these circumstances it is probable that the Bill can be passed without too much argument in committee.

W. L. Luetkens

Oil find rumours add to stock market rally

has passed through one of the most extraordinary periods in billion its history.

The winter rally which brought the key Toronto stock exchange 300-index up nearly 50 per cent to a new peak finally succumbed at the end February to record short-term interest rates in Canada and the U.S. Then, after a spectacular sell-off on March 27, the market recovered a little as the shock of short-term money costs receded.

The Canadian economy had a strong third quarter and corporation profits-jumped sharply and again in the fourth quarter. Dividends were on the rise, and the energy development scene was once again very active.

There were rumours of new conventional oil finds in the west, but the big subject of speculation was the extent of reserves found in the Hibernia and Ben Nevis offshore wells nearly 200 miles out in the Atlantic off St. John's Newfoundland.

While government and some industry sources were careful to say there was only a 70 per cent probablity the wells were commercial, it was possible that they could be brought on stream swiftly with existing North Sea technology and that reserves might be sufficient to displace imports significantly.

Gulf Canda, one of the major participants in the wells, has a relatively small float listed on the Canadian stock market and it didn't take long for its price to double.
4 Other domestic factors fuel-

ling the markets were the betterthan-expected economic performance in the third and fourth quarters, a better merchandise trade surplus, rising dividends and the ability of a substantial amount of new equity to be raised through the market in

Inflation was running at just under 10 per cent according to the consumer price index, and few heeded the growing difficul-ties of the U.S. economy and the inability of the first round of Volcker measures to check inflation.

Some of the steam of the winter rally was provided by European and American insti-

THE CANADIAN stock market tutional and private investors. It is estimated that several dollars came into Canada during the winter, helping to drive the TSE-300 index up to a peak level of nearly 2,200 on February 29, with 3,706 in the golds, 2,404 in the metals and minerals, 5,156 in the oil and gas index, 1,920 in the paper and forest products stocks, and 1,346 in industrial

> The rise in the golds and metals and minerals mitrored broadly the run-up in the free market gold price to US\$ 855, the phenomenal rise in silver (of which Canada is a major producer), and strong prices in many other precious and base metals. Generally the metals-producing sector had a record rise in earnings last year.

The market correction in March coincided with a sudden cut-off in the inflow of outside funds and the decline in commodity prices as the Americans lifted their short-term interes rates to a peak 20 per cent.

Absorb

However, Canada was able to absorb some of the shock relatively easily because the inflow of short-term capital had produced a temporarily strong Canadian dollar, allowing the Federal Government and the Bank of Canada to keep Canadian short-term rates between two and three percentage points below those in the U.S.

There were some difficult moments as the Canadian dollar weakened at one point to nearly 83 cents (U.S.), but the Bank of Canada went to a floating bank rate tied to Treasury Bill rates, supported the Canadian dollar in the market, and in late April and May interest rates in both countries were receding again, suggesting that any impending recession might be brief and not too deep.

Towards the end of May, the TSE 300 was standing around 1,850, up from the March 27 low of 1,703, with most other indexes showing similar resiliency. Generally, with Canadian real growth expected to be about 1 per cent this year, further delays in major Western energy projects, negative growth in the U.S., Canada's main export

André Bisson: mandate

TORONTO SHARE TSE SOO Composite

move sideways for much of the \$8.97.

Canadian stock markets expanded strongly in 1979. While the Montreal exchange consolidated its position, the significance of the Toronto exchange continued to grow and the Calgary and Vancouver exchanges expanded their business.

"The TSE 300, the broadest index available, closed for 1979 at 1,813, up 38.4 per cent on the year. Oil and gas stocks doubled on average and golds almost doubled. Trading on all exchanges totalled about \$230n, about double the volume of 1978. Shares traded were 2.5bn, up nearly 50 per cent, and

market stocks are expected to average price per share we

A better tax regime, besides better commodity prices, ha brought about a resurgence of the mining and metals industry across Canada and also a stronger role for the stock market in raising funds for exploration and development Only six or seven years ago, after the 1973-74 commodity boom, the industry all but halted all expansion.

The oil and gas section of the market certainly dominated in 1979 and the first five months of 1980. It is likely to do so for the rest of the year and possibly through this decade.

Robert Gibbens



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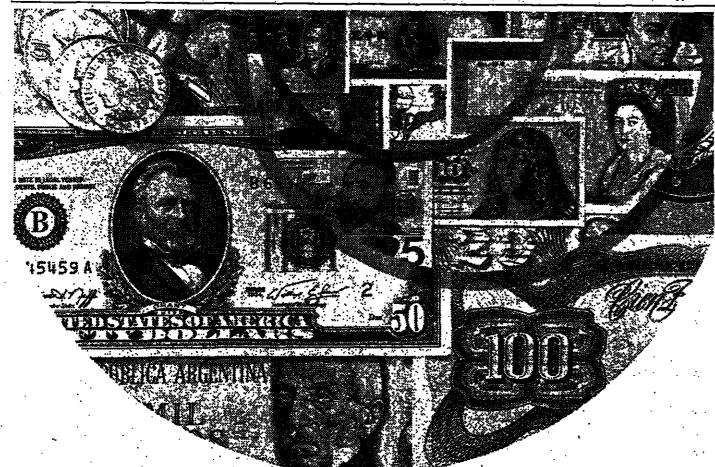
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> FINANCIAL TIMES OF LONDON **World Business**



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PROFILE Quebec banker

FRAMED ON the wall of André Bisson's office is the symbol of the high spot to date in his nine years as the Bank of Nova Scotia's top man in Quebec. It is the cover of the agreement between 16 Canadian and foreign banks for a \$300m Eurodollar line of credit to the Government of Quebec, signed in January, 1979.

It was the first time Scotiabank, Canada's fourth-largest chartered bank, had served as lead banker for a consortium loan. But for M. Bisson the real pleasure was that for the first time in Quebec's financing history, such a document was drafted in French. Even the big German and French banks have accepted the tradition of English as the language of the

Since Quebec's Quebec's recently language law made French the province's official language, bank officials wanted to protect themselves against any future legal challenges. M. Bisson also thought it was about time such things were written in the language of 80 per cent of the province's population. So the line of credit was written in both English and French, with the proviso that if there is a conflict in interpretation the French text will prevail. The fact that this occurred

the leadership of the Bank of Nova Scotia and not of a Quebec-based "Francophone bank underlines the determina tion of both M. Bisson and his superiors in Toronto to make Scotiabank a force in the French community.

Milien

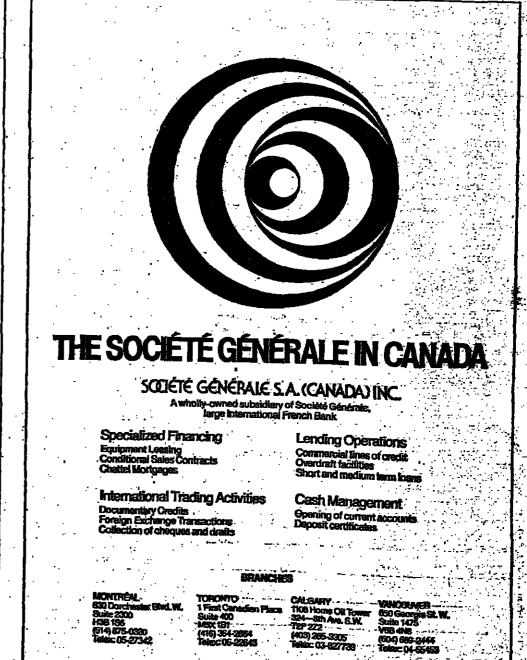
When M. Bisson, 50, joined the bank in 1971, he was the first French-Canadian to head Quebec operation. Until then, senior Quebec manage-ment had been English-speaking and the bank's language of work was English. No longer. Today. throughout its 95-branch network in Quebec, 92 per cent of employees—from managers to clerks—are either Frenchspeaking or bilingual.

Making Scotiabank truly part of its milien was the first part of the mandate M. Bisson was given when he was hired as Quebec general manager.

As a second step, the bank is increasing its recruiting efforts among the French com-

Of the defeat of the referendum on sovereignty association on May 20, he says: That vote was good for Quebec and for the economy. What's most important is the feeling if will give outsiders of confidence in Quebec."

Wendie Kerr



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TODAY'S emphass on petrol clearly distinguishable above economy has lead to many modi- the background vibration within fications in engine design to promote efficient burning of

Pressure transducers to test the pressure waveforms inside the cylinder were a major advance in the field of analysis equipment, but due to the high ing temperature. Copper electrodes are employed, insulated pressures and extreme temperatures which they had to withstand, were very expensive to manufacture.

Now available from Computer Engineering, is a range of PZT transducers which due to their many of the problems previously experienced. The washer-shaped devices are placed between the spark plug example, the YK-01 knockmeter and YA-01 indiscope also inexternal mounting overcomes an electrical output proportional tothe cylinder pressure.

onal tothe cylinder pressure. Computer Engineering, 14. The transducers generate a Wallace Way, Hitchin, Herts, very strong signal which is \$G4 OSE.

Corporation, distribution of Cordelan will be undertaken in delan, is inherently flame the UK by Sillaford, 67, Brad-

Bandsaws cope with a variety of jobs

METALWORKING

included in two new ranges introduced to the UK by machinery division of Macpherson Components, Jenkins Lane, diameters are from 30 to 100 Barking, Essex (01-594 5500). Both ranges are designed for

utilise a pasteuriser unit, it is

factory is custom building a

will be delivered to the Danish

submerged caustic soak time of

The machine provides a total

brewery later this summer.

lengths from 2.25 to 7.1 metres eight models. with maximum cutting heights from 17 to 71 cm. Saw pulley cm, and operating speeds from 600 to 1.400 rpm. Saw table

It is claimed that this new skiving and burnishing machine

reduces the cost of deep hole finishing by up to 50 per cent

when compared with traditional honing methods. The

maker, Westbrick Engineering, Harrington Lane, Pinhoe,

Exeter, Devon (0392 69241), also says other advantages are

increased surface hardness, better corrosion resistance and

reduced ovality. Sklving is defined as any cutting action

EIGHT DIFFERENT models of requirements, says the company, table tilting facility provided right hand side of the work Cosma CA range has blade on all but the largest of the table and, on all models except

using a trailing edge cutter. It can be likened to peeling

and produces a specific pattern to the metal surface which will be responsive to the subsequent roller burnishing

operation which causes the material to "flow" and produce

a very fine, work-hardened finish. This machine will deal

with cold drawn seamless tube up to 6 metres long with

bores up to 200mm diameter. Total capacity claimed is

about 2,500 metres per week depending on size.

Other range, the N-RA, has maintenance cm to 103 x 146 cm with a saw for mounting on the left or to 110 x 140 cm.

the largest, a tilting table. Blade lengths are from 2.25 to 7.2 metres, with maximum cutting applications in a variety of heights from 17 to 65 cm. Saw different industries, including pulley diameters are from 30 to woodworking, shopfitting and 105 cm and operating speeds allied trades. Standard features from 580 to 1,400 rpm. Saw high output performance, maxi-mum operating safety and the dimensions range from 41 x 46 include an adjustable side fence table sizes are from 41 x 46 cm

Fast bottle washing and sterilising plant ing compartments with caustic and a deluge of caustic solution solutions at progressively in- flushes off any stubborn or creased, then decreased, tem- trapped labels which are carried to the base of the compartments. After the caustic soak, the All soaking compartments are bottles are rinsed internally and fitted with label separators externally with reclaimed water, which discharge labels from the

> They are then lowered from the a waste conveyor. carriers by rotating cams and The Series 40 is heated by pushed out on to the discharge high pressure hot water and the strength of the caustic solution Built into the third and is maintained at a constant level fourth caustic soaking compart- by a Crossfield Detomat determents are label flushing systems gent dosing unit.

TRANSPORT

Eases steel handling problems

MOVEMENT of heavy and unwieldly goods between the delivery, production, and despatch areas of the extensive works at Kiverton Park Steel and Wire Works, Sheffield, has long been a headache until the operation of six new 25-ton drawbar platform trailers from Alexander Trailers, Cambridge Industrial Area, Salford

(061 832 2121). Latter company was commis- Systems sioned to design and produce trailers which would move with ease from exterior to interior locations, with good manoeuvrability in confined spaces.

Delivery of the trailers has proved an immediate elimination of wasteful deployment of capital equipment and manpower as, hitherto, a number of Kiverton's heavy goods vehicles had to be on almost permanent stand-by for on-site transportation duties. There is the extra benefit of a big saving on road fund tax, as these trailers are exempt from this.

The trailers have S cam air brakes on all four wheels operated through the towing vehicle and there is a mechanical handbrake operating on the back axle for parking and emergency use.

The chassis are of all-welded, rolled steel I beam and channel construction, and the deck and headboard are of machined hardwood, with a 6 in perimeter steel upstand round the deck area for load location.

An extensive system of lights and reflectors ensures that the trailers can be used on night shifts, and the lights are recessed wherever possible for safety in operation. All wiring is protected by steel conduit.

Exceptional manoeuvrability is said to be provided by the turntable, and tyres are G.74 Bearcat Grizzley simulated pneumatics twinned on both axles to spread the load and completely eliminate blow-out danger.

Drawbar assembly is hinged with an adjustable spring apex leveller and there is a 3 internal diameter eye hitch enabling hitching and unhitching without the driver leaving his cab.

Trailers are operated by a Montgomery Reid MR6000 towing tug following close co-operation between this company and Alexander to achieve com-plete compatability.

Structural **steelwork** is part of_ Norwest

total capability

INSTRUMENTS Finds leaks in vacuum

BOTH VERY small and relatively large leaks in vacuum systems operating down to one tenth of a microtorr can be detected by the Delta Ultra Sense portable leak detector available in the UK from Mega-tech, 2a, Waterloo Road, Havant, Hants, P09 1BH (0705 472868)

A one-inch diameter five-inch long sensor is permanently plumbed into the vacuum system and will detect the presence of externally applied tracer gases such as helium, freon, hydrogen and also liquids such as acctone and alcohol, as they find their way into the system via the leak. The associated electronics/meter unit measures only 3 x 7 x 8 inches but, claims the company, its sensitivity is only one order of magnitude less than that of a mass spectoremter.

Measures dust hazard

SPECIALLY DEVELOPED to measure the level of asbestos dust in the industrial environments is a rapid fibre counter, the MSS, available at about £10,000, from Vickers Instruments, Haxby Road, York.

Equipment consists of a modified standard Vickers M17 microscope which allows collimated beams of light to be directed on to prepared membrane filter specimens and a single operator is said to be able to accurately count up to 100 membrane filter asbestos samples per day without eye strain, and with, minimum fatigue.

Microprocessor based electronics measure and process scattered light information as the microscope stage is automatically rotated. Asbestos fibres are automatically counted and results are expressed on a four-digit read out in fibres per square millimetre of filter surface or fibres per ml of sampled

THE THARSIS SULPHUR AND COPPER COMPANY, LIMITED

NOTICE IS HEREBY GIVEN that an Extraorenary General Meeting of the above-named Company will be steld at Hotel Lancaster. 7 Rue de Berri, 75 Parts (6) on Monday the 30th day of June, 1980, at 12.20 of clock in the afternoon 1980, at 52.00 of the meeting of

HELP

e per share.

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Cobert Gibben

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ctor 112 447 Ap. 752 4 45 the story by E. n at mar will morto. Street. SA T or ASS int Aufgenstand декта Наши.

IMES OF LOND Busine



This offer is only applicable to readers of the Psecial Times within the U.K. We process on the basis that the film does not exceed material cost. Offer volid to 31.12.80 Minimum charge 85p.

Registered Office: PO Box 45, Toplow, Maidenhead, Berta S160AQ. Registered No. 1007290

EDUCATIONAL

Learn FRENCH Fast

clo-Economic Semilaars for Managers, we weekday and week-end courses.
4. Also Easter and Surmoer sessio Château CERAN Niveré - 8-4880 SPA (Balgium) Tet: 087177.39.16 - Telesc cayan 49850

PERSONAL

PAIR OF ROYAL ALBERT MALL seats (APP) for sale, £12,000. Write Box Financial Times, 10. Cannon Street, EC4P 48Y. N RECENT YEARS, misuse

M RECENT YEARS, misuse of poisons is known to have caused the death of nine golden eagles, sex red kites and nearly 100 buzzerds. And in 1978 and 1979, over 24.000 oiled seabirds were found dead on our shores. Help the RSPB in lis vital tight against these serious threats. Without your help we can't succeed. Please send your donation to Department FT 23.—The Royal Society for the Protection of Birds, The Louge. Sandy, Bedfordshire, SG19 2DL, Registered Charity, No. 207075. Thank you

PUBLIC NOTICES

IALTON BOROUGH COUNCIL—5575.000
Halton Borough Council Bils Issued on
28th May 1980. dus. 27th August 1980

9 16.1254. Applications totaled
52.3m. 2575.000 Bils are outstanding.

LOCAL AUTHORITY BONDS

Every Saturday the Financial Times publishes a table giving details of

LOCAL AUTHORITY BONDS

on offer to the public For advertisement details please ring: B. Kelaart 01-248 8000, Extn. 266

DIAMONDS FOR INVESTMENT Diamond Selection Ltd. ofer loase-cut and polished diamonds for investment. The following is a crass section of press from their range as at 1st June, 1900. Based on S rate 2.18 Diamond in the range we recom-bid for Investment have appreciated approximately 800% since July.

1969.

Discovered is made up as foliosis—
Colous/Clarity/Carat
es. 120 4 136

Make is always groud/yery good.

All stopes are graded at Dismond
Gradiog Laboratories using their unique
measuring equipment. Wa also hold
requiar seminars and teach-ins.

Price guide and brochure with orecourse for burning and settling staded
and certified diamonds are systlable
from:—

erskam House, 57a, Hatton Garden, don EC1N 4JB, Tel: 01-4 5 2045

12 minutes; the bottles taking a remove loose contamination,

total of 20 minutes to pass then passed through the soak-

BECAUSE THE plant does not through the machine.

essential to ensure an unusually ments, is equipped with integral

bottle-sterility at the Fredericia optimum use of reclaimed water

Brewery, Denmark, says Barry and handles up to 60,000 bottles Wehmiller, whose Altrincham an hour.

Series 40 bottle washer which the 40 carriers across the width

high level of cleanliness and label flushing systems, makes peratures.

LEGAL NOTICES

Dirty bottles are loaded into

of the machine by a rotating

action and then fed through the

unit. The bottles are flushed

with water at 40 degrees C to

NOTICE IS HEREBY GIVEN that the names and addresses and the particu-lars of their claims and the names and addresses of their solicitors (if any) to R. E. R. Rumboll, of Coopers & Lybiand, La Motte Chambers, St. Heiler. Jersey, Chennel Islands, the Liquidator of the said company, and if so required by notice in writing from the said Liquidator are by their solicitors or personelly to come in and prove their said debts or claims at such time and said debts or claims at such time and place as shall be specified in such notice or in default thereof they will be excluded from any benefits of any distribution made before such debts

are proved. Dated 19th May 1980. R. E. R. RUMBOLL, Liquidator.

EVE has outlined the others because of a golicy of fair play and value for money-supper from 10-2.30 am. Disco and too musicians, plamorous bostesses, exciting foorshows, 189, Regent St. 734 0557.

GARGOYLE, 59, Dean Street, London, WI-NEW STRIPTCASE FLOORSHOW "CLOSE ENCOUNTERS" 11-2.30 am, Shows at Midnight and 1 am, Mon.-Fri. Closed Saturdays, 07-437 6455.

COMPANY NOTICES

RENAULT VEHICULES INDUSTRIELS

Head Office: 129, rue Servient "La Part Dieu " 69003 LYONS, FRANCE

and finally softened fresh water. base of the compartments on to

R. C. LYONS B 954.506.077 International 101% Loan 1975-80 for FF 100,000,000 "AUTOMOBILES M. BERLIET"

Alphanumerical code: 332,560 Notice is hereby given to bondholders that total and final redemption will happen on July 10th, 1980, price being

THE NARBOROUGH (F.M.S.)
RUBBER ESTATE; LIMITED CHANGE OF ADDRESS
the effect from 1st June. 1980. the
mpany's Head Office in Malaysia will
located at Khong Kok Yar Btrilding.
Jalan Sandar Rava (Hisle Street),
h. Malaysia.

FF 100,000 per bond,

RIVERVIEW RUBBER ESTATES BERHAD CHANGE OF REGISTERED OFFICE With offect from 1st June, 1980, the Company's registered office will be located at Khong Kok Yat Building. 23 Jalan Bandar Raya (Hale Street), 190h. Malaysia

ASSOCIATED MUNICIPALITIES OF DENMARK US\$15.000,000 544 20 YEAR EXTERNAL LOAN OF 1964 Bondholders of the above Loan are advised that the redemption due 30th June. 1980, i.e. USS 1,149,000 nominal has been effected by purchase. The ourstanding belance of the toan after this redemption b USSS,294,000 nominal. HAMBROS BANK LIMITED

DRAWINGS BOND

conveyor.

AUSTRIAN ELECTRICITY

U.S.\$15,000,000 6.5/8% Guaranteed Bonds 1986

S.G. WARBURG & CO. LTD., announce that the redemption instalment of U.S.\$900,000 due 1st July, 1980 has been met by purchases in the market to the nominal value of U.S.\$543,000 and by a drawing of Bonds to the nominal value of U.S.\$357,000. The distinctive numbers of the Bonds, drawn in the presence of a Notary Public, are as

Serial Nos:-343 to 612 702 to 762 On 1st July, 1980 there will become due and payable upon each Bond drawn for redemption, the principal amount thereof together with accrued interest to said date at the office of:-

30, Gresham Street, London, ECCP 2EB, or one of the other paying agents named on the Bonds. Interest will cease to accrue on the Bonds called for redemption on and after 1st July, 1980 and Bonds so presented for payment must have attached all coupons maturing after that date.

S.G. WARBURG & CO. LTD.,

U.S.\$5,400,000 nominal amount of Bonds will remain outstanding after 1st July, 1980. The following Bonds drawn for the redemption due 1st July, 1978 have not as yet been

Nos:- 7652 to 7655 : 7658 : 7659 : 7706 : 7730 : 8097 : 8098 : 8406 to 8408 2nd June, 1980

30, Gresham Street, London, EC2P 2EB

CASSA PER IL MEZZOGIORNO 6%% Guaranteed Bonds 1984

S.G. WARBURG & CO. LTD., amounce that the redemption instalment of U.S.\$1,875,000 due 1st July, 1980 has been met by purchases in the market to the nominal value of U.S.\$1,787,000 and by a drawing of Bonds to the nominal value of U.S.\$88,000. The distinctive numbers of the Bonds, drawn in the presence of a Notary Public, are as

follows:-Serial Nos:-10907 to 10994 On 1st July, 1980 there will become due and payable upon each Bond drawn for redemption, the principal amount thereof, together with accrued interest to the said date at the office of:—

S.G. WARBURG & CO. LTD. 30, Gresham Street, London, EC2P 2E8,

or with one of the other paying agents named on the Bonds. Interest will cause to accrue on the Bonds called for redemption on and after 1st July, 1980. and Bonds so presented for payment must have attached all coupons maturing subsequent to that

U.S.\$8,125,000 nominal Bonds will remain outstanding after 1st July, 1980. 30, Gresham Street, London, EC2P 2EB

2nd June, 1980

THE THARSIS SULPHUR AND COPPER
COMPANY, LIMITED

MOTICE IS HEREBY GIVEN that the Annual General Meeting of The Tharsis will be held in the Hotel Lancaster. 7 rue de Bert. 75 Paris (8), on Monday. 30th June. 1980 at 12 noon for the following phryogs.—

Auditors thereon. Resolution No. 1)

2. To re-elect Directors.

3. To reappoint the Auditors and to authorise the Directors to determine the remuneration of the Auditors.

1. Resolution No. 5)

By Order of the Board.

R. N. PETERS.

Registered Office:

before the time appointed for the the description of Share Warrants to Bearer who wish to be present at the meeting or vote by proxy set the description from the Registered Office of the Company or from the Registered Office of the Company or from the Registered Office of the Appointed depositaries—

Lazard Frères et Cie. 121 boolevard Haussmann, 7592 Paris.

Banque Vernes et Commerciale de Paris S.A. 2 ave. de Tervuren, 1040 Crédit Suisse, Lausanne, Switzerland.

Llovds Bank International Religium) S.A. 2 ave. de Tervuren, 1040 Brussio.

Banque Générale du Lixembourg S.A. 14 rue Aldringen. Luxembourg S.A. 14 rue Aldringen. Luxembourg.

There are no contracts of service between the Directors and the Company at the date of this notice.

TRAFALGAR FUND S.A. societé anonyme Repistèred Office; LUXEMBOURG, 14. rue Aldringen Repistre de Commerce; Section B No. 8.202

MOTICE OF ANNUAL GENERAL MEETING OF SHAREHOLDERS The Annual General Meeting of Share-holders of TRAFALGAR FUND S.A. will be held at its registered office, 14. rue Aldringen, Luxembourg, on June 10th, 1980 at 15.00 hrs. for the poreose of considering and voting upon the following malters: 1. To hear and sccept the reports at a. the directors:

upod che following matters:

1. To hear and accept the reports at:

a. the directors:
b. the statutory auditor.

2. To approve the balance sheet and the profit and loss account as at February 20th, 1980.

3. Altocation of net profit.

4. To discharge the directors and the auditor with respect to their performance of duties during the year ended February 29th, 1980.

5. To elect the directors to serve until the next annual general meeting of shareholders.

6. To elect the auditor to serve until the next annual general meeting of shareholders.

7. Any other business.
In order to take part at the statutory meeting of June 19th, 1980 the owners of bearer shares will have to deposit their shares two clear days before the meeting at the registered office of the Fund, 14, rue Aidringen, Luxembourg, or with one of the following banks:

ing banks:

Banque Genérale du Luxembourg,

S.A.

14, ree Aldringen, Lictembourg,

J. Henry Schroder Wage & Co.
Limited. 120, Cheapside, London ECZV 6DS.
The Board of Directors.



Viking Resources International N.V. Listed on the Ameter-dem Stock Exchange.

cent concluses of a service services of concluses of the proposed as pecial Resolutions, viz.

solution No. 1—That the Scheme of Arrangement called the Softh day of May 1980 between the Company and the holders of its Shareco a product to the meeting at the subscribed for purposes of the control of the company periodical of the Company approach of the company be reduced by cancelling 1750 of the company be reduced by cancelling 1750 of the company be reduced by cancelling 1750 of the company be reduced of cancelling 1750 of the company be reduced by cancelling 1750 of the company be reduced by cancelling 1750 of the company to the shares of \$2 of the Company and reducing the nominal, amount of each such share accordingly.

esolution No. 2—That subject to and contingently upon the said Scheme of Arrangement becoming operative the provisions of the Company be changed to "The Thars's Company Limited."

esolution No. 3—That subject to and contingently upon the said Scheme of Arrangement becoming operative the provisions of the Memorandum of Association of the Company be and are bereby aftered by delecting the objects set forth in Company to the delecting the objects set forth in Appendix forms part.

By Order of the Board.

N. PETERS.

Secretary.

the time freed for holding the Extraordinary Genéral Meeting.

Di la order to altend and vote at the
Extra-ordinary General Meeting.

Di la order to altend and vote at the
Extra-ordinary General Meeting.

Di la order to altend and vote at the
Extra-ordinary General Meeting.

The state warrant to hearer must
deposite, not less than ten days before
the day appointed for the Meeting.

Authorised Office of the Compart of Line share warrant
deposited as follows:—

(I) where the warrant is within the
the United Kingdom, with an
Authorised Depositary listed in
Appendice I, anguland Notice Ect
of the Bank Kingdom, with a service of
the Bank United Kingdom,
and Stockbrokers in, and Solicitors
practicisms in, the United Kingdom, the Channel Islands or the
liste of Man), or

where the warrant is outwith the United Kingdom, with one of the tollowing Depositaries:— Lazard Frères et Cie., 121 Bd. Haussmann, 75382 Paris, Cedex Housemann, 753B2 Paris, Cedex OS., Banque Vernes et Commerciale de Paris 5.a., 52 avenue Moche, 75008, Paris, Credit Suese. Lausanne. Switzerland, Lloyds Bank (Belgium) S.A., 2 avenue de Tervueren, 1040 Brussels, Banque Générale du Luxembourg, 14 rue Aldringen, Luxembourg, 14 rue Aldringen, Luxembourg, that he does not hold the same trust or as agent for any other on directiv or indirectly and ingo his name and address, the

present directive or indirectly and giving his name and address, the number of the warrant and number of the warrant and number of the shares included therein signed by him, together with a certificate signed by such Depositary that the share warrant is and will be retained in such custody until after the Meeting or any adhorament thereof shall have been belo.

(b) There shall be delivered to the holder of a share warrant to bearer who has complied with the lorageling requirements a certificate stating his name and address and the number of shares represented by the shares represented by the shares represented to the holder of the stating and such certificate shall entitle him to attend and vote at the Meeting in the said cortificate.

(2) Forms of procy for use by the said cortificate.

in respect of the shares specified in the said cartifacts.

(1) Forms of proxy for use by holders of share warrants to bearer and copies of the Scheme of Arrangement and the Statement required to be furnished burstant to Section 207 of the Companies Act 1948 may be sortained from the Registered Office of the Companies and any of the abovementioned offices of Lazard Frèrés at Co. Banque Vernes et Commarciale Banque Vernes of Liver Banque Genérale du Luxembouro daring supai business hours on any day 60ther than a Saturday. Sunday or public holiday) prior to the day appointed for the Meeting. Any form of prove lodged by a Boider of a share warrant to bearer who does not hold a certificate as to his entitlement to attend and vene at the Nessing shall not be valid.

The quarterly report as of 31st March, 1980 has been published and may be obtained from Pierson, Heldring & Pierson N.V. Herengracht 214, Ameterdam.

Building and Civil Engineering

Hospital redevelopment by Lovell Bovis enters

wounded Canadian servicemen staff restaurant and adjoining during World War 1, Orpington kitchen geared to produce up to Hospital, Kent, is to be rede 950 main meals a day. veloped under a £6.5m contract awarded by South East Thames Regional Health Authority to Loyell Construction Group.

Work should start this month although the hospital and acci- of the existing hospital builddent centre will still continue to function during the 31 year building operations.

Programme consists of demolishing most of the original reinforced concrete slab floors,

Eve Construction is a Greater

London Council project involv-

ing the completion of works for

the erection of 159 dwellings.

The company has taken over

from a previous contractor and

work on this £2.5m contract has

just started at Burrage Grove.

Construction of a regional

assessment centre within the grounds of the Royal Philanthropic School, Redhill, involves

the erection of a two-storey resi-

dential accommodation block for

Woolwich, London, SE18.

boys and is worth £1.15m.

Eve busy for GLC

ling over £4.7m just awarded to work valued at £293,000 has

pumping station.

The company will also build. five two-storey residence buildings in two inter-connected blocks, plus renovation of two ings to form a nurse training unit and dental facility.

Buildings are to have trench filled mass concrete foundations, single-storey hospital built be-tween 1914 and 1918, and the levels, brick and blockwork

At-Billingshurst, West Sussex,

Also in the London area, three

£166.000 Grove Park sewer re-

construction scheme for the Borough of Southwark, layout

and construction of a £392,000

riverside walk and a £210,000

courtyard improvement at East

Dulwich Estate, both for the

ORIGINALLY BUILT as a tem-construction of a three-storey loadbearing external walls and new fields porary medical centre for 284-bed block, together with a pitched tiled roofs. The com-CONTINUING ITS policy of pany is also responsible for in-

ternal partitioning, fittings, fin-

ishings, mechanical, electrical

and lift installations, plumbing

landscaping throughout the pro-

Also announced is a contract

worth over £1.4m for building

sponsored homes for up to 300

people at Amesbury Wilts., by

Lovell Company, F. Rendell and

Sons. This is being undertaken

in partnership with Salisbury

fighting services for General

Included in the £13m contract

are 31 installation control valve

sets and 7,000 sprinklers fed by

a 300 mm diameter ring main,

electric/diesel fire pumpset and

two cylindrical water storage

Motors new central warehouse

District Council.

Sprinkler

contract

been awarded by the Horsham FIRE PROTECTION division of

District Council and covers the Hall and Kay Engineering has

construction of the 1.5km been appointed design/instal-

eastern area outfall sewer and lation contractor for the fire

tanks.

further projects include the at Milton Keynes.

diversification into new business areas, Bovis Civil Engineering has announced a joint venture with A. and J. Bull to and drainage roadworks and handle the disposal of up to Im tonnes of digested sewage sludge for the Thames Water Authority's Thamesgro opera-

> This £5.2m contract involves the collection of liquid sludge from six sewage works, its trans-port to farms designated by the TWA and spraying on fields as agricultural soil conditioner.

> Bovis and Bull. will together provide the manpower to supervise loading and spraying which will eventually require a road transport fleet of 20 speciallybuilt tankers, each with a capacity of 4,300 gallons. Five selfpropelled spreaders will be used to carry out spraying operations. Over 70 per cent of this sludge tonnage will be collected from one location near Heathrow Airport and other collection points are at Chertsey, Croydon, Enfield, Kingston and

Kyle Stewart

CONSTRUCTION of a Tristar

hanger at Gatwick Airport is

to be started by Kyle Stewart in

tract is the largest of four

awards to the company totalling

build an extension to the offices

of Hitachi for The British Steel Corporation Pension Fund Nominees. This £700,000 scheme for a three-storey con-

crete-framed building has just

started and is expected to be finished by this time next year.

start on a film refurbishment

job. This involves alterations

and additions to the existing

five-storey office block and a

new floor for the rear wing at

fourth floor level. A plant room

will be built at roof level and

new services installed through-

Under a fourth contract, Kyle

Stewart has already started on

a three-storey office block in Marefair, Northampton, for

Centros Properties. This £1m

project is due for completion

Complex of Wernick buildings

the Wernick service.

WERNICK

At Millington Road, Hayes. Middlesex, Kyle Stewart is to

Valued at £2m, this con-

wins £4.7m

under way on the building of receipt and dispatch facilities. **Factory and warehouse**

about £2m, and work is already packing, dispensing, quarantine,

Boot hospital project

Myton's stores-fitting

BRITISH HOME Stores has five levels at the Stoneborough

(Taylor Woodrow Group) for £1.6m) work covers fitting out

stone, Kent, and Eastbourne, central redevlopment area.

beds and 80 day places.

Project is scheduled for com-

At Eastbourne (worth about

clyde. Work involves the erec-

tion of a single-storey warehouse for palletised storage, and a low-

level, single-storey annexe for

canteen, offices, change room,

pletion in November 1982 and

this first phase should be in use

during the summer of 1983:

CONSTRUCTION OF the first entrance.

phase of Kilton District General Hospital, Worksop, Notts, will

be undertaken by Henry Boot

under a contract worth £4.75m. Total cost of this phase, including equipment, will be form

separate sites within the boun-

daries of the hospital and com-prises the main general hospital

construction, including two major operating theatres, two

surgical wards, an x-ray depart-ment, in and out patient ser-

vices, staff facilities and main

bined value £3.6m, to Myton

- Work entails the completion

of the structural shells of both

premises (recently completed

developments), to provide sales areas, public restaurants, stock

rooms, staff facilities, plant

rooms and shop frontages, both

planned to open during 1980-81.

Maidstone contract is worth

awarded two contracts, com- Centre-

WORK HAS started on a new £3.5m factory warehouse and office complex for GTE Sylvania at Shipley, near Bradford, which will be undertaken by Marshall

Project Management Services. This is the largest contract finished with pre-cast concrete won by the company (division floor planks. of the Marshall Group) and in-

a very high mechanical service content in the manufacturing area.

Internal mezzanine offices are supported on steel frames and

The building has been dewarehouse consisting of a Sylvania (which makes lamps propped sleel portal frame 66.6 and photoflash) and has a large metre span with coloured warehouse at the rear for pressed metal sheeting to the storage and despatch of goods.

volves the main factory and signed for future extension of

Bos Kalis busy offshore

In London, at 5-6 Cork Street INCLUDED IN work worth W1, the company is about to over £2m just awarded to a Bos Kalis Westminster company. Land and Marine Engineering. is a £1.25m contract to refurbish a corroded ballast water pipeline from an offshore terminal on Grand Bahama Island.

This work is for Burmah Oil (Bahamas) and calls for the insertion of a 400 feet long 30 inch diameter glass reinforced plastic pipe into the existing 36 inch diameter submarine pipeline. Work has begun and the internal inspection and seabed anchoring of the existing

System Buildings

Second contract won by Land and Marine involves the supply and installation of a conven tional buoy mooring system with submarine pipeline for the elec-

tricity authority of Cyprus. The installation will be used for intake of fuel oil to a new power station being constructed at

Jobs for Buckley

tracts totalling £1.6m just awarded to Miller Buckley is the building of an above ground installation for British Gas Corporation's East Midlands region at Aylestone Road, Leicester, worth £584,707.

Major contracts also come from Black & Decker (£428,000) for warehouse and office accommodation, and building refurbishment for member company Miller Buckley Developments (£340,000).

Other work includes a singlestorey extension for Inter-national Paint Company, conversion of a building into computer room for RHM Foods at Willesden, London, and a storage building in Birtley, Co-Durham, for Durham Chemicals.

Cubitt's £2.5m

housing LOCAL AUTHORITIES in the Midlands have awarded con-tracts totalling more than £2.5m to Cubitts Housing which include modernisation of homes in Nottingham-£1.2m project covering 154 homes at Highbury Vale, and another 60 homes in city (contract worth

£535,000). At Derby, housing of most unusual construction—the walls re made up from sheets of cast iron lined with asbestos to deaden noise and retain warmth are being improved, with central heating being installed and kitchens updated. Over 80 homes are affected and the cost

will be £420,000. Coventry Churches Housing Association has retained the company to build 22 homes of traditional construction at Linwood Drove under a contract worth £347,000.

Hostel for the aged

JEWISH WELFARE Board has contracted Lesser Design and Build to create a £1.4m hostel. for the elderly at Gants Hill, llford, expected to be com-

pleted by October 1981.

NEW SCAFFOLD TUBE ON CREDIT TERMS NO INTEREST CHARGES TUBE TO B.S. 1139 Black 46p. per foot - Galv. 57p. per foot

10% deposit with order — 40% on delinary Balance 6 months Tolksham: Makedon Profest CHEE 45042 (Field, FT2) -BEECCH TECLD ENGINEERRONG LIBERT EED NO. BANTEEN BOAD COMMENT.

Pitching for more There will also be an adult mental illness unit providing 50 business

Alterations and extensions to the existing kitchens, boiler AMERICAN companies seeking house and mortuary will also be expansion in the UK and need-Work has just started on eight undertaken, together with the parate sites within the boun provision of roads, vehicle ing new factories, warehouses and offices will be the targets parks, paths and landscaping, in a drive to attract more busidrainage and external services. ness by design and build speof part two- and three-storey including the provision of an construction, including two electricity sub-station. cialist Hewgate of Aylesbury;

> Hewgate's confidence is bolstered by the fact that it is about to complete its eleventh design and build project in this country for U.S. companies and says its experience thus gained leads to the conclusion that further exploitation of its capa-bilities in this direction could be profitable. It also has behind it over 100 years of activity in the building business. So the Americans will not be dealing with a brash newcomer.

fitting out new stores in Maid- a building at three levels in the The British company's facili-ties for taking on new projects In Scotland, Taylor Woodrow are being expanded and it is understood that several addi-Construction has received a £1.2m contract from Organan tional U.S design/build con-Laboratories for the erection of tracts are in the pipeline. a new storage and packaging facility at Newhouse, Strath-

The eleventh contract now nearing completion is a 30,500 square feet warehouse and complex for Cooper Health Products on Hewgate's doorstep at Aylesbury. Other jobs have included a two-storey 22,000 square feet factory for Burroughs Machinery Corpora-tion, also at Aylesbury, a 22,000 square feet surface coatings factory for Union Carbide at Swindon and a 50,000 square feet warehouse for G. D. Searle at Chadwell Heath, Essex

Claiming that it offers speed cost control and efficiency, Hewgate says that under a recent contract for a factory of well

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CARGODON CONCRETE CO. L'110 Long Crendon Bucks. Tat 208481.

over 20,000 square feet it took only six weeks from the initial inquiry to the start of work on the site. During this time plan-ning approval, Building Regula-tion approval, specification, working drawings, firm price and contract conditions were all agreed. The frame, manufactured by Butler International was erected within a further nine weeks.

Hewgate's chairman, Geoffrey Gates, reckons that this is the kind of service American businessmen appreciate à service in which design, manufacture and construction are all coordinated.

Hewgate says that, as hitherto, will build traditionally or with components fabricated by the UK autoidiary of the US-based Butler Manufacturing Company with which it has had a long association. With a strong foothold in the U.S. market, an expanded professional design and construction team and a background of steady growth the company appears to be batting on a good wicket.

However, a good team always relishes a challenge and it may not be long before the company faces the bowling on some untried pitches. It could be very successing.

Pipe joints meet latest BS

first UK concrete pipe maker to offer a nipe joint designed specifically to meet the requirements of the new (not yet published) British Standard 5911 Part 1 (which will replace the current BS 556) Birchwood Concrete Products has just launched a new range of horizontally and centrifugally spun concrete pipes.

The company has just in-stalled new manufacturing facilities at Cotes Park Industrial Estate, Somercotes, Derby-shire (0773 602432) and says that full scale tests prove that the positive and easily made rubber ring joint meets all the stringent joint type tests included in the new British

These new spun pipes are available in the nominal size range from 600 mm to 1800 mm, in 2.5 metre lengths, to all

ANNOUNCING that it is the BS strength classes and the pipes can, if required, be supplied bearing the BSI kitemark.

Colour brochure with full details of the range of precast concrete pipes and manholes is now available from the com-

IN BRIEF

 Brick contract worth £170,000 Building Products to supply 500,000 Aztec facing bricks for the new £12m Ardilaun Centre being developed by MEPC Ireland at St. Stephens Green. Dublin.

• Gosport builder John Hunt has been awarded a £500,000 local authority contract to build phase II of the Holbrook Recreation Centre at Holbrook, Gosport.

CONTRACTS AND TENDERS



REPUBLICA ARGENTINA

YACIMIENTOS PETROLIFEROS **FISCALES**

SOCIEDAD DEL ESTADO

Call for bids contracting hydrocarbons development and exploitation works, according to the following detail:

Tender No. 14-043/80



ROQUE" (Neuquina Basin), Provincia Neuquen

OPENING "SAN DATE

October 27th 1980 -2t

10.00 a.m.

SUPERFICIE 81.000 ha

* Tender condition set value: The equivalent of us\$ 7.500 in Argentine pesos, payable according to the seller rate of exchange of the Banco de la Nación Argentina in force on the day before the

Opening of the bids will take place at the "General Belgrano" Hall, No. 777 Roque Sáenz Peña Avenue, 13th floor at the above men-

* The parties interested in bidding in this tender can buy Special and General Conditions of Tender at the GERENCIA DE LICITACIONES Y NEGOCIACIONES, Suite 832, 8th floor, at 255 Esmeralda Street, Buenos Aires, Mondays through Fridays from 08:45 to 12:30 a.m. and from 14: 15 to 15:15 p.m. as from May 6th, 1980.

* Information about this tender can also be obtained at our Technical and Commercial Office in the U.S.A. Argentine Government Oilfields placed in Houston, Texas, 5 Greenway Plaza, Suite 210.

INVITATION TO BID

1. The Maritime Bank (Denizcilik Bankasi T.A.O.), the Turkish State Railways (Turkiye Cumhuriyeti Devlet Demir Yoflari) and the General Directorate of Harbour Construction (Limanlar Isaac Genel Mudurlugu) invite bids for the supply of the following equipment: FOR DB

(a) Main and auxiliary engines, engine room auxiliaries and miscettaneous equipment for one 2,500 htp tug.

(b) Main and auxiliary engines, engine room auxiliaries and miscellaneous equipment for five 1.500 htp tugs.

FOR TCDD

(a) 76 mobile cranes, diesel hydraulic type.

(b) Il tractors, tow type.
(c) 18 trainers, tow type, flat bed.
(d) 9 crawler cranes, diesel hydraulic.

(e) 2,800 m. crane rails, type MRS 87. (f) Crane rail fastening devices. FOR LI

Auxiliary engines and equipment for four 525 bhp tugs. DB. TCDD and II intends to apply the proceeds of a loan in various currencies equivalent to US\$75 million granted by the World Bank for the rehabilitation of 10 major ports in Turkey.

This bid invitation is only open to suppliers from membe countries of the World Bank and Switzerland. 4. Tender documents pertaining to the above inquiry may be purchased against the remistance of US\$50 for each package (9 packages in total) from the following addresses as from June 15, 1980, until-June 30, 1980: FOR DB

Denizcilik Bankasi T.A.O. Tersaneler Mudurlugu Karakoy-Istanbul Turkey.

FOR TCDD

Devlet Demir Yolkri Malzeme Dairesi Baskanligi Gar/Ankara

FOR LI Bayindirlik Bakanligi Liman Insaarlari Genel Mudurlugu Kara Yollari Sitesi B Blok

Ankara, Turkey.

5. Only bidders which have purchased the tender documents shall be allowed to participate.

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Write to James Pollock A.R.I.C.S.. Industrial Development and Estates Manager, Livingston Development Corporation, LIVINGSTON, Scotland. Telephone Livingston (0589) 31177. Telex 727178. London 01-930 2631.

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Ulegrand

ELECTRICAL FITTINGS AND ACCESSORIES

Net consolidated profit: +44% Distribution: increase of 30.4% Bonus shares: 1 for 5

The Board of Directors, called in Limoges, has closed the accounts of the fiscal year 1979. Consolidated results according to international principles, not audited, read as follows:

1978 1978 1979 old new method variation method (in million francs) Pre-tax turnover 1,200 1,255 1,489 +19% Amortization 66 +20% 65 55 Profit before tax ______ 133 143 204 +48% 93 +43% Net profit (Group share) 66 77 111 +44% Cash flow 151 135 204 +51% of which held-over tax: 1978; 4 million francs-1979; 26 million francs.

The Board of Directors has decided:

• to call the Ordinary General Meeting in Limoges on

• to propose the payment of a unitary dividend of 32 francs per share—on a capital increased by the distribution of one bonus share for five in 1979—compared with 29.50 francs the previous year, which brings the total payment to an amount of 24.100 million of francs, an increase of more than 30%. This dividend will be made payable as of 7 July 1980;

• to allocate to the shareholders one new bonus share, effective as of 1 January 1980, for five old ones, by incorporating part of the revaluation reserve:

After taking up 80% of the Arnould-F.A.E. stock in January 1980, Legrand has just concluded an agreement with the Merlin Gérin Group for the assignment of 80% of the Saparel shares (connection and safety circuit-breakers) held by Arnould-F.A.E., and also with Télémécanique for the assignment of 50% of the Normabarre department (pre-set piping systems). Legal and financial terms of these transactions are being negotiated and should be concluded shortly. being negotiated and should be concluded shortly.

Moreover, Legrand has just taken over three companies abroad: RRUPKA in Austria, through its branch M.P.E. KRUPKA.

whose productions are complementary to those of M.P.E.: bulk-heads, waterproof equipment, wall plugs ..., employs 49 people in Kremsmünster, near Linz, and has achieved a turnover of 18 million schillings (5.8 million francs) in 1979. • CONTOUR in Great Britain (a department of G.C.K.

Fusegear) through Legrand Electric Ltd. CONTOUR has a staff of 60 people in Liverpool's suburbs and has a range of switches, plugs and lampholders, sockets which conform to British Standards, 1979 turnover: £800,000 (7.7 million francs). MULTICONTACTOS OTESA in Mexico, a small firm based in Mexico manufacturing the essentials of the line: switches, socket outlets . . , indispensable to reach the Mexican market. The 1979 turnover of 14 million pesos (2.8 million francs) has been achieved with a staff of 60 people.

Legrand has also taken over the cable-ties department of a Beigian company in the field of plastics transformation, with a turnover of 4 million French frames.

Concerning activities of the first quarter of 1980; sales are up by 24% compared with those of the same quarter of last year.

Anatomy of a 'traumatic' takeover

Christopher Lorenz examines some of the hidden perils

of diversification through acquisition

GLEN HANEY is an in usually mid-spokes American
who seldom indulges in the
national habit of hyperbolic
So when he describes an
experience as "transmatic,"
and a set of problems as excruciating," you take him deadly seriously.

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Haney is describing his company's version of what is so often a planner's nightmare: the conflict between strategic dream and opera-tional reality that tends to beset diversification-by-acquisition

A swelling body of research into diversification patterns on both sides of the Atlantic, is demonstrating that there is a very good chance that even the best-planned takeover will fail; not for the simple reason that the predator fails to catch its prey, but because all sorts of skeletons, strains and stresses emerge only after the catch has been made

Haney is vice-president of world marketing for Sperry Univac, the \$2.3bn computer division of Sperry Corpora-tion, a widely diversified engineering group. In 1977,

after several years of planning, Pennsylvania-based Uni-vac acquired Varian Data Machines (VDM), one of the mass of high-technology companies which has spring up on the sun-drenched coast of Southern California, Los

Angeles' answer to San Fran-

cisco's famous Silicon. Valley.

In spite of VDM's relatively tiny size-it had sales of \$30m in 1977—Univac considered that, of the few available acquisition candidates, the company had the best-developed skills and expertise to become a solid foundation for its own large-scale diversification into minicomputers. This new and fast-growing market was already -worth nearly \$5bn a year.

Univac has a good deal of experience in digesting acquisitions. The purpose of some of them has been to secure immediate market share (the purchase of RCA's large computer business, for example). Other, mainly small companies, have been



bought for their future promise, or for their specialised technology and market know-how, or both. Varian Data Machines fell squarely into the second category, though its existing vided a useful bonus.

Univac already knew that before VDM's potential as a major force could be realised a radical transformation had to be made: from a maker of brought back in line with plan, though it is now running at above the original projections. As Haney comments with characteristic restraint, "That's good stuff."

Now that Haney's "trauma" is over he is relaxed enough to claim that he actually enjoyed the whole experience. It might have been a different story if he and his colleagues had not been prepared, more than once in the year following the acquisition, to admit that their initial perception of their problems was either incomplete or wrong—and to take the necessary action. It is this same realism and

openness which makes their story so instructive for others on the acquisition trail, and especially for two very interested parties: those plan-ners who believe you can go into a takeover with a foolproof strategy for every eventuality; and those big business executives who want to preserve the entre-preneurial flair of a newlyacquired small subsidiary. while at the same time intergrating it into their corporate structure and strategy.



Sperry Univac's Glen Haney (top)—an entinusiastic supporter of the decision to break into mini-co via an acquisition. Vacmond Crane (above left) and Bill Grover were seconded from Univac to kelp him

and financial plans. It was only in 1979 that outturn was How Sperry Univac cured a stubborn case of indigestion

IN STARK contrast with the minis via internal development that any acquisition must be operational side of the exercise, than by takeover, Haney says friendly: "being a predator is the "strategic" elements of Sperry Univac's plan for diversi- the key criterion was establishfication into mini-computers ing a firm base for the future.

were relatively straightforward.

Of fundamental significance

the acquisition search actually its recognition of a factor which began in 1976 the question of often escapes the notice of diversifying companies, to their had frequently been discussed cost: that their new markets at different organisational levels, are not an extension of their particularly as part of Univac's existing business, but something annual five-year planning pro- entirely different cess. The question had appeared . Haney says Univ

more of the constituent parts of mentality. . in building test-Univac's marketing organisation ing selling and maintaining the began to argue that the company should move into minis.

the basic argument was simply that the company would otherwise throw a lucrative new mar-appointment of carefully ker away to its competitors—selected executives to manage ker away to its competitors large, established and diversified the operation. multinationals like IBM and into multinationals.

appeared under the negative tiations. Varian Data Machines heading of "threats" to Uni- and Company X. vac's existing business. Pre- Company X, whom Univac is had been the previous cutback eminent was that it began to still reluctant to name, failed in research and development. lose some orders to the mini to fulfil one of the acquisition specialists. In the light of pre-conditions, that it should have and marketing of computers, it was inevitable that the trend could only accelerate.

Key criterion

The end result of the process of debate was that, in early 1976. Univer's executive com-mittee established a special "Task Force" to answer the questions: "Shall we move into the mini business with a 'family' of products, and, if so, After several months work, the seven-person team reported back "Yes," and 'through acquisition."

Somewhat surprisingly in view of the all-round competitive threat to Univac, Haney claims that timing did not play paying Company X's extra pre-a key part in its decision to diversity by acquisition, rather though not the certainty—of an than by internal product development—the dilemma always faced by any diversification. Added to which, the President management of VDM, now that lies between product debent management. Though of Company X was not alto-re-christened with another velopment and actual manufacturivac would undoubtedly have gether happy with the takeover acronym, MCO (or Mini-Comture, Not only had the Californian

that speed was not the issue:

For at least four years before in the company's decision was

· Haney says Univac realised under the headings of both that the move from its tradi-"threats" and "opportunities" tional "mainframe" business As time went by, more and into minis required "a different egan to argue that the company equipment"— in everything bould move into minis. that is. This view coloured On the "opportunities" side, every step that was subsettle basic argument was simply quently taken, from the choice of acquisition candidates to the Acceptance of the Task

Honeywell, as well as smaller Force's recommendations was specialist, suppliers of minifollowed by the appointment of computers, many of which were a small acquisition team." Out followed by the appointment of themselves rapidly developing of an extensive search process nto multinationals. . . quickly came contacts with But Haney says the more three companies, two of which startling" reasons for the move then proceeded to formal nego-

its own marketing network. On the other hand, it had the advantage of being several times larger than VDM, and its current product line was more advanced. So it theoretically offered a larger and more established base from which to launch an attack on the minimarket.

But the computer business. trades heavily on fast-moving technological innovation and Haney claims VDM had greater design expertise. Though this had not been fully exploited thanks in part to a cut in VDM's research and development budget-it appeared to offer more promise for the future. So Univac was doubtful whether it would be worth earlier breakthrough into the market.

not consonant with our image," says Haney.

So talks were broken off, and Of fundamental significance in June 1977 VDM was acquired. The problems which confronted its new owners can be broken into three categories, though they were closely interrelated: first, those that had been identified before the acquisition was made.

> The second group was those that emerged only after Univac had actually moved some of its managers into the Californian operation. This is no reflection on the ability of the acquisition team. Predators always suffer the occupational hazard of never knowing exactly what you're getting until you've got it," to quote the head of a British-based conglomerate with a virtually unparalled experience in takeovers.

Not spotted

Last, but of most crucial importance, were those problems that were not spotted until about a year after the takeover. following further changes in top personnel

The most obvious difficulty listed by the acquisition team had been the previous cutback ning role, Mr. Heney's involve

Equally evident was that the implies. quality of existing products was suffering from inadequate testfacture. Allied to this was the perception that the transforma- in research and development tion from custom-tailoring of rather than production. low-volume products to mass designs would not be easy. This was something of an understatement .

The second category problems, identified shortly after the acquisition, was more in VDM's factory were inadequate to support even the initial growth in business which months double the industry financial targets for 1978 were

manager to run MCO. In order, manufactureability of their to ensure that the group's top products—whether in small or headquarters management had large batches—but designs were a direct view of the subsidiary's progress, control was exercised when they were not complete, not through Univac's division- Both these factors were still alised structure but from the affecting product quality and centre, first by Univac's President, then by Glen Haney, one of the group's most senior stepped up and new products marketing and product planning introduced. executives. Though he had been closely involved in the acquisition project from the start, little did he know that MCO's

individual customers, It had

to be turned into an efficient

mass-market manufacturer of

machines, with a much larger

and more elaborate field force of marketing and service staff. But it had

seriously underestimated

both the complexity of this

task, and the time it would

For at least a year after the takeover, it looked from the

outside as if the project might prove a failure. On the Inside,

months of strain, including

several executive changes,

were necessary within the

California subsidiary before

the chief cause of its prob-

lems could be identified. This

lay in the quality of its design

engineering, the phase that links product design and

development with production.

Though drastic remedial

action was immediately put in

train, its performance fell far short of the initial marketing

take to carry out.

standard family of

affairs would take up almost all they his time during the next "traumatic" year. As the serious nature of MCO's production-related prob-lems became increasingly evident in late 1977 and early

1978, it was decided to strengthen the management of MCO's design and manufactur-ing by drafting in a top techni-cal executive. A "director of development and manufacturwas duly appointed alongside the head of MCO, and direct reporting responsibilities were divided between them: engineering and production to the technical side of the organisation, marketing to Heney, But because of his corporate-wide product plan-

ment was broader than this split The new technical man was the ebullient ing during and after manu- Crane, another Univac veteran. Most of his experience had been

His actions during the first standard 12 months after his appointment in March 1978 were anything but those of a beginner. For one thing, it was Crane who unearthed the third, and key; category of problems. initial analysis suggested that concise but equally serious: the main production bottleneck that the manufacturing facilities was the inflow of parts from suppliers, so he brought in a senior manufacturing man with the relevant experience.

had been planned. As the But after three or four delivery cycle shot up to six months' more exposure to the But after three or four problems, and a more searching standard-VDM's marketing and investigation. Crane discovered that some of the earlier analysis missed by a wide margin. As had been incomplete, or even yet, the exact cause was unclear. wrong: the root of the trouble By this time there had lay in the quality of MCO's already been changes in the top own engineering—the stage

After the takeover, Univac company's designers been pay-had put in its own general ing insufficient attention to the being released into production disrupting manufacture, creasingly so as output was

> With the benefit of hindsight, it is arguable that the acquisition team should have suspected these detailed problems, since are typical of small, technology - dominated companies.

> As for the obvious argument that the trouble should have been taken care of immediately after the takeover, Univac would reply that the search for its root was prolonged by the number of outer layers that first had to be peeled away. The company's reluctance to inject more than a minimum of its own executives into the new entrepreneurial subsidiary may also have played a role.

If Crane was to resolve all the problems he had finally identified - and quickly - he

with a rather more general background than his first appointee. He turned once more to Univac's extensive ranks of experienced engineers. Again belying his professed lack of experience at running manufacturing operation,

Crane rapidly took the drastic

step of having the factory gutted and completely rebuilt. In addition to the money Univachad already begun pouring into R and D. it now had to inject far more extra funds than planned in the form of new plant and equipment. Shortly after Crane's first anniversary California, in March, 1979, Univac's cumulative expendi-ture on MCO's production facili-

topped the \$30m mark. At the same time a thorough retraining programme for MCO's 1,300 employees had acquisition, as part of the initial drive for growth).

ties and new products had

But with many executives working a seven-day week, the transition was completed in a matter of months. By the end Univac executives now in key

needed a manufacturing chief production and sales were back up to the original target, and killed the thrusting, entrepreare now running well ahead, neurial flair that made the

> duction represents only one information systems, planning among MCO's top 40 managers.
> and the rest—have all been [Intil three months are this gradually introduced. And on the marketing side, there has been a quantum jump from a relatively untargeted, smallscale operation to one of massmarketing in carefully targeted market segments.

Much of the credit for the later changes must go to Bill Grover, who took over the nontechnical side of MCO just over a year ago, which was also when direct control of this was trans-MCO's 1,300 employees had ferred from Haney to the to be stepped up (its payroll marketing side of Univac's had doubled in the year since divisional organisation.

The cessation of MCO's special status as a separate entity, the introduction of a panoply of big corporation procedures, and the number of of the 1979 fiscal year, in March, positions at MCO, all raise the the acquisition.

Crane's transformation of Original Varian Data Machines an attractive acquisition? MCO's engineering and pro-

Bill Grover replies that there part of the revolution that has been a conscious policy of Univac has carried out at MCO. minimising the number of Uni-The parent company's standard vac "immigrants," and points administrative procedures - out that there are still only financial controls, management half a dozen "Univac men"

Until three months ago this included Vaemond Crane, but, having accomplished MCO's production turnround, he has since left to run a competitor's manufacturing operations.

Both Grover and Haney would deny outside allegations that MCO's ability to exploit its resources to the full, by manoeuvring rapidly in the highly volatile minicomputer market, is being constrained by its subordination to the interests of Univac's traditional computer business. But Haney concedes that some loss of entre-preneurial spirit was inevitable if MCO was to become an integral part of Univac's overall corporate strategy. This, after all, was the whole purpose of

TENDERS MUST BE LODGED NOT LATER THAN 10.00 A.M. ON WEDNESDAY, 4TH JUNE 1980 AT THE BANK OF ENGLAND, NEW ISSUES, WATLING STREET. LONDON, ECAM SAA, OR NOT LATER THAN 3.30 P.M. ON TUESDAY, 3RD JUNE, 1980, AT ANY OF THE BRANCHES OF THE BANK OF ENGLAND OR AT THE GLASGOW AGENCY OF THE BANK OF ENGLAND. TENDERS MUST BE IN SEALED ENVELOPES MARKED "EXCHEQUER TENDER".

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MINIMUM TENDER PRICE £96.00 PER CENT

PAYABLE AS FOLLOWS:

Deposit with tender On Friday, 4th July, 1980 On Friday, 25th July 1980

£40.00 per cent Balance of purchase money

INTEREST PAYABLE HALF-YEARLY ON 27th APRIL AND 27th OCTOBER This Stock is an investment lalling within Part II of the First Schedule to the Trustee Investments Act 1961. Application has been made to the Council of the Stock Exchange for the Stock to be admitted to the Official List.

THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND are authorised to prepare and are for the shore. Stock

THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND are authorised to receive tenders for the above Stock.

The principal of and interest on the Stock will be a charge on the National Loans Fund, with recourse to the Consolidated Fund of the United Kingdom.

The Stock will be repaid at par on 27th April 1994.

The Stock will be registered at the Bank of England or at the Bank of Ireland, Belfast, and will be transferable, in multiples of one new penny, by instrument in writing in accordance with the Stock Transfer Act 1963. Transfers will be free of stamp duty.

Interest will be payable half-yearly on 27th April and 27th October. Income tax will be deducted from payments of more than 65 per annum. Interest warrants will be transmitted by post. The first payment will be made on 27th October 1980 at the rate of 64.5054 per F100 of the Stock.

Tenders must be lodged not later than 10.00 a.m. on Wednesday, 4th June 1980 at the Bank of England, New Issues, Watting Street, London, 524M 9AA or not later than 3.30 p.m. on Tuesday, 3rd June 1980 at any of the Branches of the Bank of England or at the Glasgow Agency of the Bank of England.

Each tander must be for one amount and at one price. The minimum price, below which tunders will not be accepted, is 596.00 per cent. Tanders must be made at the minimum price or at higher prices which are multiples of 25p. Tenders lodged without a price being stated will be deemed to have been made at the minimum price.

A separate chaque representing a deposit of £40.00 per cent of the nominal amount tendered for must accompany each tander; chaques must be drawn on

at the minimum price.

A separate chaque representing a deposit of £40,00 per cent of the nominal amount tendered for must accompany each tender; chaques must be drawn on a bank in, and be payable in, the United Kingdom, the Channel Islands or the Island Man. Tenders must be in sealed envelopes marked "Exchaquer Tender."

Tenders must be for a minimum of £100 Stock and for multiples of Stock

Amount of Stock landered for, £100—£2,000 £2,000—£5,000 £5,000—£20,000 £20,000-£100,000 £100,000 or greater

£10.000

Her Majesty's Treasury reserve the right to raject any tender or to allot a amount than that tendered for If undersubscribed, the Stock will be

Her Majesty's Treasury reserve the right to raject any tender or to allot a less amount than that tendered for if undersubscribed, the Stock will be allotted at the minimum price, the balance of Stock not tondered for being allotted at the minimum price to the Governor and Company of the Bank of England, issue Department. If oversubscribed, all allotments will be made at the lowest price at which any tender is accepted (the allotment price), and tenders accepted at prices above the allotment price will be allotted in full.

Letters of allotment in respect of Stock allotted, being the only form in which the Stock may be transferred prior to registration, will be despatched by post at the risk of the tanderer, but the despatch of any letter of allotment, and any refund of the belance of the amount paid as deposit, may at the discretion of the Bank of England be withheld until the tenderers' chaque has been paid. In the event of such withholding, the tenderer will be notified by letter by the Bank of England of the acceptance of his tender and of the amount of Stock allocated to him, subject in each case to payment of his chaque, but such notification will conter no right on the tenderer to transfer the Stock so allocated.

No allottment will be made for a less amount than £100 Stock, for the event of partial allotment, the belence of the amount paid as deposit, with, when

event of partial allotment, the balance of the amount paid as deposit will, when retunded, be remitted by cheque despatched by post at the risk of the tenderer; if no allotment is made the amount paid as deposit will be returned likewise. Payment in full may be made at any time after sligtment but no discount will be allowed on such payment. Interest at the rate of 1 per cant per annum over the Bank of England's Minimum Lending Rate on a day-to-day besis may be changed to any tenders and the percentage. the Bank of England's Minimum Lending Rate on a day-to-day basis may be charged on any overdue amount which may be accepted. Default in due payment of any amount in respect of the Stock will render the allotment of such Stock liable to cancellation and any amount previously paid liable to forfolture:

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London, EC4M 9AA, or by any of the Branches of the Bank of England, on any date not letter than 23rd July 1980. Such requests must be signed and must be accompanied by the letters of sillotment (but a letter cannot be split if any installment payment is giverdue).

accompanied by the letters of allotment (but a letter cannot be spirt if any instalment payment is overdue).

Letters of allotment must be surrendered for registration, accompanied by a completed registration form, when the balance of the purchase money is paid, unless payment in full has been made before the due date, in which case they must be surrendered for registration not later than 25th July, 1980.

Tender forms and copies of this prospectus may be obtained at the Bank of England, New Isaues, Wating Street, London, ECEM SAA, or at any of the Bank of England, New Isaues, Wating Street, London, ECEM SAA, or at any of the Bank of England; at the Bank of Ireland, P.O. Box 13, Denegall Place, Beltast, BT) 5BX: at Mullens and Co., 15 Moorgate, London, ECZR SAN; or at any office of the BANK OF ENGLAND

LONDON 30th May 1880.

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U.S. Thatcherite experiment

BY SAMUEL BRITTAN

THE ECONOMIC policies of the economy. Thatcher Government are being Administration and Congress keenly watched by U.S. business

But having come back from a Washington conference devoted to this very subject I am struck by the fact that the Carter-Volcker regime is already tackling inflation by a very similar monetary route to that of the British Government.

Indeed, the top economic items on the U.S. agenda for the Venice summit of June 22 is a joint declaration by heads of government giving priority to anti-inflationary, monetary and fiscal policies and resisting the seductive claim of anti-recession stimulant which can only aggravate unemployment in the not-So-very-long rum.

The extent of Washington's anti-inflationary commitment was borne in on me during a conversation with a key policy-maker on the eve of publication of a new "shock horror" figure for the leading business indicator. After a review of the evidence for a short versus a prolonged recession, and an expression of hearty agnosticism towards all forecasts, my in- But these ornamentations do formant admitted that even if not affect mainstream policy. he knew that the recession would be long and severe it would make little difference to his attitude. This was not because of callousness but because the switch in emphasis from interest rates to money supply by the Fed last October have given policy a degree of auto-

Indicator

The large drop in U.S. interest rates has not been due making in Britain. Indeed the to any conscious relaxation of present anti-inflationary stand policy out to the automatic may be slightly more adrift effects of a sharp drop in credit under a Reagan presidency demands with unchanged mone- because of the influence of tary guidelines. The chief indi- wishful thinking advisors who cator that the Fed watches is counsel the reserve of member banks without reductions in spending, with itself—i.e. the so-called under the deceptive slogans of monetary base minus public holdings of cash. Like the money supply itself these reserves have been well below targets so far this year.

Most remarkable of all has diate the economics of the been that in an election year 1960s for which their opposite there have so far been no numbers among British Social Presidential attempts to lean Democrats and in Whitehall

are still committed to a balanced spokesmen and leading Republi-budget in fiscal 1981. The "balance" is a term of art, and as it assumes that there will not be the major recession which most forecasters are expecting. But a temporary deficit, due purely to a recession-induced drop in revenue, is accepted on all sides as being compatible with an anti-inflationpolicy—even by Governor Wallich the Fed's outspoken dis-senting hawk. The U.S. line is indeed almost identical with the various Burns Lawson interpretations of UK fiscal policy. involving a trend reduction in government horrowing rather than kneejerk lurches.

Relief .

Obviously a Democrat Admiristration will try to give selec-tive and symbolic relief to groups particularly hit by the recession. Moreover, vague and meaningless price and wage understanding with unions and management are reported on page 99 of the most heavyweight American newspaper. But these ornamentations do

The difference that U.S. leaders seek between their policy and that of Mrs. Thatcher is mainly that their own has been less clearly articulated theoretically, and that they have adopted it in the spirit of "if you know a better hole go to it." On the other hand the Carter-Volcker regime is much less bothered by the many "enemies inside the gate" in officialdom and in the business community which are such a curse to policy reductions in taxes supply side economics."

But what strikes me most is the way in which middle of the road Democrats and officials have been prepared to repuon the Fed to stimulate the are still fighting so cussedly.

6.55 Ask The Family.

Making the criminal forfeit his riches

ing public acceptance of the idea available to the ordinary that courts should pass apprecreditor the civil process of that courts should pass appreciably shorter prison sentences than they currently do on nonviolent offenders (as the Home Secretary has been publicly exhorting the courts to do) would be to ensure that offenders are compelled to disgorge the fruits of their criminal activity.

Hitherto, the law has generally opted out of the business of recovering the criminal's illgotten gains and has lent only partial assistance of reparation to the victims of crime. .

Imprisonment, variable according to the size of the thieves' haul, is the price paid by the thief for the prospect of regaining his liberty in the not too distant future and then enjoying the profits of crime (however seriously depleted by inflation). Thus, the great train robbers, received sentences of up to 30 years' imprisonment and no monetary penalties for stealing £2m.

Victims of crime have in theory been given limited help ever since 1870. Compensation and restitution of stolen property are available legal emedies, although they are not extensively used. And in 1972 Parliament introduced experimentally a system of criminal bankruptcy.
A criminal court, on convict-

ing an offender for any offence of theft or fraud, who could be shown to have caused loss to others of £15,000 or more in aggregate, could set in train by

ONE SIGNIFICANT way of gain- a more direct route than is bankruptcy. That system has not worked well, largely because the courts have tended to use the criminal bankraptcy order against the more serious offender in addition to a long term of imprisonment

Offender

Such an offender is not edcouraged to co-operate with the Government's insolvency service, and thus is able to frustrate any attempt to trace and recover the offender's property. There is little sign yet that the Parole Board is prepared to grant an early release on parole licence in return for collaborative effort from the prisoner (would Charles ichardson have got parole at the seventh time of asking if he had offered some reparation to the victims of his violent crimes of the 1960s?)

The Department of Trade's committee on insolvency, under the chairmanship of Sir Ken-neth Cork, will be reporting soon. It is likely to indicate that criminal bankruptcy should be devised afresh as part of a new law relating generally to the forfeiture of an offender's

At present Parliament has concentrated on the forfeiture of noxious material — for example, firearms and other offensive weapons, pornography and dangerous drugs.

THE WEEK IN THE COURTS BY JUSTINIAN

there is no direct victim, in the sense that no individual will have suffered loss of or damage to his property or person. But the pickings of pornographers and drug traffickers have indeed proved so rich that even victimless crime now attracts authority's desire to step in.

The lucrative gain made from illegal drug taking has already led some prosecutors to seek expectantly from the courts orders of forfeiture under the present law. One such instance, arising out of the drugs prosecution in 1978 known as Opera-tion Julie, is under review by the House of Lords, whose judgment is expected this month. That decision is likely to provide the Parliamentary stimulus to an extension of existing courts' powers to order forfeiture not only in the drugs field but also in other illegal

activities. Section 27 of the Mis-use of Drugs Act 1971 provides in simple general language that on a conviction for an offence under the Act "anything relating to the offence" may be forfeited.

The trial judge and the Court of Appeal in the Operation Julie case held that the words of the

These are all instances where section were wide enough to catch any after-acquired property including (according to the Court of Appeal) even the houses bought by the offenders with the proceeds of their drug dealing. (The trial judge excluded any land or houses from his order of forfeiture which amounted to three-quarters of a million pounds of monies and other personal property.)

Confiscate

The offenders argued that this ruling misinterpreted Parlia-ment's intention; the legislation had intended only to seize and confiscate the illegal drugs and anythig that was directly associated with the transaction constituting the drug offence. Thus the syringes or scales used in the illegal supply of drugs would be forfeitable, as indeed would be any money actually handed over by the purchaser to the drug trafficker.

But the proceeds of drug dealing, stacked away in foreign bank accounts or converted into consumer durables or other properties, could not, it was argued, become forfeitable.

If the House of Lords accedes

the order, the urge to legislate hibited import or export.
will be evident. But some of the public disquiet at the present severe limitations on the powers of forfeiture will be assuaged by the knowledge that the authorities in Switzerland

have seized monies deposited in bank accounts in Zurich that were referable to the drug traffiking in the Operation Julie Legislatures throughout the world have recently been mov-

ing towards an extension of powers of forfeiture. Aimed not primarily at the street pushers or drug couriers, since short prison sentences together with a suitable fine operate as the most effective penalty for such persons, in terms of their limited assets and income, the legislation rather aims at stripping the large-scale stripping the large-scale operators in illegal drug manufacturing and supply of their vast profits where fines and jail sentences of tolerably humane lengths are inadequate. Part of this legislative aim indeed is to strip the operator of his profits so that losses of liberty can be kept in reasonable pro-

A main field of legislative activity has been against the smuggling of illegal drugs. Legislation in the United Kingdom gives wide powers to the Customs and Excise to forfeit anything brought in or exported which is subject to a prohibition on import or export, but it does not allow confiscation of

this argument and quashes the proceeds of the sale of a pro-

In 1971, however, Parliament did introduce an interesting power. In the Immigration Act ships of less than 500 gross tonnes and aircraft or vehicles knowingly used in the carrying of illegal immigrants into this country could in certain Groumstances be forfeited. There is no reason why ships and aircraft of any tomage that are knowingly used in the import or export of prohibited drugs should not likewise be forfeited.

Problems

The problems of enforcing forfeiture orders prompt hesitation before rushing into legislation. The fruits of crime do not long remain in their original form or even stay in the hands of the offender.

What should happen to monies deposited by a criminal with a bank; is the bank to be deprived of any rights it may have over its client's funds? And what about the gift to an offender's children held in trust for their education? Or the car which has been purchased in part exchange for another car itself purchased with some of the profits of crime?

If some of the problems of execution of forfeiture orders seem daunting, there is little doubt that attempts to counter them by legislation will be made and soon.

THEATRES

Mediocre look for the Derby

"I've gone for Henbit, even though I don't think he's a champion." That seems to sum up this year's Epsom Derby

Seldom has the Blue Riband looked more sub-standard. This has been reflected by the volatile market state which will see a drastic reshuffling of odds

Although Henbit has neither raced nor disappointed in the past fortnight, few backers have shown interest in the colt that Carson has chosen in preference to the one-time favourite, Water Mill.

Instead, ante-post concentra-tion has been on the Irish pair, Monteverdi and Nikoli. as well as on Harry Wragg's Newmarket - trained outsider,

The reasoning of those who have chosen to differ with the

East (Norwich): Look North

leading Irish pair at this stage is difficult to understand. Monteverdi produced his most disappointing display wearing blinkers for the first time in was influenced by the health the Irish 2,000 Guineas, while of Paddy Predergast senior. It

RACING BY DOMINIC WIGAN

winner, Nikoli, was announced a definite Epsom absentee as he was led into the winner's enclosure at the Curragh.

Connections of Nikoli have said his action and temperament were not suited to Epsom. There are likely to be about 20 runners in Wednesday's lineup-a larger field than could

have been anticipated 10 days ago-and this does not augur well for the reportedly highly strung Nikoli. It is felt he may

A 1 Y

1.20 pm ATV Newsdesk. 2.00

Money-go-Round. 2.30 "Joison Sings
Again," sterring Larry Perks. 5.15

Teke My Wife. 6.00 ATV Today. 10.30

Left, Right and Centre (specially
extended programme looks at Europe
on the first anniversary of direct elections to the European Parliament).

11.10 ATV Newsdosk. 11.15 Luke's
Knordom. 12.15 am Something

BORDER

1.20 pm Border News. 2.00 Money-go-Round. 2.30 Monday Matinee. 5.15 University Chellenge. 6.00 Lookaround Monday. 6.15 About The Garden. 6.30 Out of Town. 10.30 Conference Report. 11.30 Las Vegas. 12.00 Border News Summer

CHANNEL

1.20 pm Channel Lunchtime News, What's On Where and Wasther. 2.00 Money-go-Round. 2.30 The Monday Mahnes: "The Introder." 5.15 Univer-

Matnes: The Intrider." 5.16 University Challenge. 6.00 Channel News. 8.10 Project UFO. 10.28 Channel Lata News. 10.25 The Television Programme. 11.05 Luke's Kingdom. 12.00 Police Surgeon. 12.25 am News and Weather In French.

GRAMPIAN

9.25 am First Thing. 1.20 pm North News. 2.00 Meney-Go-Round. 12.30 Mondey Matinee: "The Angry Silence," starring flichard Attenborough and Fier Angelt. 5.15 University Chellenge. 8.00 North Tonight and Area Weather Fore-cast. 6.30 Out of Town. 10.30 Con-ference Report—The Scottish National Party. 11.30 Reflections. 11.35 The New Avengers. 12.30 am North Headlines.

GRANADA

HTV

12.15 am Someth

get worked up in the Derby atmosphere

wonder whether the deci

sion for Nikoli to participate is widely known that Paddy now gravely ill, wants to be associated with an Epsom Derby winner more than anything else. Turning to today's card, the most interesting seems at Bath. Stria, a promising fifth of 21 behind Little Atom at Thirsk recently, looks a likely winner in the Milbourne Maiden

Pulteney Stakes. BATH 2.00—Royal Blood*** 2.30—Stria** 3.00—Pincents 3.30—Violino Fandango

Stakes. Royal Blood can beat

shorter priced rivals in the

4.00—Narīz

4.30-Falkland Palace*

ozp: 11.05 The Monday Film: Operation Cobra." HTV Cymru/Wales—As HTV West/ neral Service except: 10.05 am HTV General Service except: 10.05 am-16.20 am abc. 12.00-12.10 pm Trehatisu. 1.20 Penawdau Newyddion Y Dydd. 1.25-1.30 Report Wales Headlines 2.00-2.30 Hamdden. 4.45-5.15 Sêr. 6.00 Y Dydd. 6.25-7.00

1.20 pm News Headlines and Road and Weather Report. 2.00 Money-Go-Round. 2.30 Monday Matines. "Drive Hard, Drive East." 5.15 Little Vic 6.00 Scotland Today. 6.45 Crimedesk. 10.30 Conference Report—SNP. 11.30 Late Call. 11.35 Kaz.

SOUTHERN 1.20 pm Southern Rews, 2.00 Money-Go-Round. 2.30 "Coney Island," starring Betty Grable, 5.15 Take My Wife, 6.00 Day by Day, including Southsport, 10.35 First Edition, 11.20 Mrs, Columbo.

TYNE TEES 9.20 am The Good Word, followed by North East News. 1.20 pm North East News and Lookaround. †2.30 Monday Matinee: "Cardboard Cavalier." starring Sid Field and Managrat Lookwood. 5.15 Mork and Mindy. 6.00 North East News. 6.02 Play It Again. 6.25 Northern Life. 10.30 Morth East News. 10.32 Northern Report. 11.00 The Monday Thriller: "The Say Killer," starring Robert Horton. 12.30 em Epilogue.

1.20 pm Lunchtime. †2.30 Monday Martinee: "Uncle Silas," starring Jean Simmons. 4.13 Unster News Headlines. 6.15 Portrait of the Artist. 6.30 Happy Days. 10.29 Ulster Weather. 10.30 Into the Eighties. 11.00 The Odd Couple. 11.30 Gardening Today. 12.00 Bedtime.

WESTWARD 1.20 pm Wastward News Headlines. 2.00 Money-Go-Round 2.30 The Mon-day Matinee: "The Intruders." 4.12 Gus Honeybun's Birthdays. 5.15 Universty Challenge, 6.00 Westward Diary, 10.32 Westward Late News, 10.36 The Kingdom, 12.00 Police Surgeon 12.25 am Faith for Life, 12.30 West Country Westher and Shipping Forecast.

YORKSHIRE 1.20 pm Calendar News. 2.00 Money-Go-Round. 12.30 Monday Matines: "Uncle Silas," starring Jean Simmons. 5.15 University Challenge. 6.00 Calendar (Emley Moor and Belmont editions). 6.35 Chips. 10.30 Calendar Carousei. 11.00 Kate Loves A Mystery. 12.00 George Hamilton IV.

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BRYNNER IN RODGERS AND HAMMERSTRIN'S THE KING AND HAMMERSTRIN'S THE HAMMER HAMMERSTRIN'S THE KING AND HAMMERSTRIN'S THE KING AND YOUNG VIC 01-928 6363, Eves 7.3 ROSENCRANTZ AND GUILDENSTERN ARE DEAD

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Orchestra (5). 1.00 pm News. 1.05 BBC Lunchtime Concert (5). 2.00 Metines Musicale (5). 3.00 Kilpinen song recital (5). 2.30 New Records (5). 4.55 News. 5.00 Mainly for Pleasure (5) (4-and mone only from 6.20). 7.00 Bech cantata (5). 7.45 Trade Unions and the Law Discrepance Statement Size (S) Stareophonic broadcast

† Medium wave

5.00 am As Radio 2. 7.00 Dave Lee
Travia. 9.00 Simon Bates. 11.31 Paul
Burnett. 2.00 pm Andy Paables. 4.31
Paul Gambaccini. 7.00 Stayin' Alive.
8.00 Mike Read. 9.50 Newsbeat. 10.02
John Peel (S). 12.00-5.00 am As Radio
2

RADIO 2

5.00 am News Summary. 5.03 Ray Moore (S). 7.32 Terry Wogan (S). 10.03 Jimmy Young (S). 12.03 pm David Hamilton (S). 2.03 Ed Stawart's Request Show (S). 4.03 Much More Music (S) (continued). 6.03 John Dunn (S). 8.62 Folk on 2 (S). 9.02 Humphrey Lynelton with the Best of Jeżz on Records (S). 9.55 Sports Desk. 10.02 Pop. Score. 10.30 Stor Sound. 11.02 Brian Matthew with Round Midnight, including 12.00 News. 2.02-5.00 am You end the Night end the Music (S). RADIO 3 RADIO 4

news. 1.00 The World at One. 1.40
The Archers. 1.55 Shipping forecast.
2.00 News. 2.02 Woman's Hour. 3.00
News. 3.02 Listen with Mother. 3.15
Afternoon Theotre (S). 4.45 Short
Story. 5.00 PM News magazine. 5.50
Shipping forecast. 5.55 Weesther; programme news. 6.00 News. 6.30 Home
Again. 7.00 News. 7.05 The Archers. 1.20 Science Now. 7.45 "Fethers and
Sons," by Ivan Turganov (S). 9.40 BBC Radio London

Capital Kadio
6.00 am Graham Dene's Bresklast
Show (S) 9.00 Michael Aspel (S).
12.00 Dave Cash (S). 1.00 pm London
Today First Report (S). 1.19 Dave Cash
(continued). 3.00 Roger Scott (S). 7.00
London Today (S). 7.30 Adrian Love's
Open Lina (S). 9.00 Alan "Fluft"
Freemen (S). 11.00 Tony Myatt's Late
Show (S). 2.00 am Peter Young's
Night Flight (S).

1.20 pm Granada Reports. 2.00 Money-Go-Round. 12.30 Monday Matinee: "The History of Mr. Polly." 5.15 Granada Reports. 6.00 Granada Reports. 6.30 This is Your Right. 19.30 Reports Politics. 11.00 The Late Film: "Girl on a Motorcycle." 10.30 Monday Film: "The Killing Stone. 12.15 am Close: Personal choice 1.20 pm Report West Headlines. 2.00 Taka My Wife. 12.30 The Monday Matines: "Cardboard Cavalier." 6.15 Betman. 6.00 Report West. 10.35 with Denise Coffey. All IBA Regions as London except at the following times:

Radio Wavelengths 7 1216kHz/247m 7 & 90-92.5vhf sta

centers (S). 7.45 Trade Unions and the Law. Discussion between Sir Andrew Shonfield and Lord Wedderburn. 8.30 Lutoslawski conducts Lutoslawski (S). 9.10 Sybils. 9.50 Robert White Latin-church music (S). 10.30 Jazz in Britain: The Bluenotes (S). 11.00 News. 11.05-11.15 Purcell (S). WHF Only—Open University: 6.00-7.00 am and 6.20-7.00 pm and for Scottish students only: 12.00-1.00 am. IQ ADMO A.

RADIO 4
6.00 am News Briefing 6.10 Ferming Week, 6.25 Shipping forecast, 6.30 Today, including 6.45 Prayer for the Day; 7.00, 8.00 Today's News; 7.30, 8.00 Today's News; 7.30, 8.20 News Headlines; 7.45 Thought for the Day, 8.35 The Week On 4, 8.45 Patrick Moore with the BBC Sound Archives, 8.35 Continental Travel: 3.00 News, 9.06 Start the Week with Richard Bakar, 10.00 News, 10.02 Money Box, 10.30 Daily Service, 10.45 Stary Time, 11.00 News, 11.05 To the Far Corners of the Earth; 150th Anniversary of the Royal Geographical Society, 11.50 Poetry Please, 12.00 News, 12.02 pm You and Yours, 12.27 Brain of Britain 1980 (S), 12.55 Weather; programme

Science New. 7.45 "Fathers and Sons," by Iven Turgeney (5). 9.49 Kaleidoscope. 9.59 Weather. 10.00 The World Tonight. 10.30 Conversation Piece. 11.00 A Book at Bedtime. 11.15 The Financial World Tonight. 11.30 Today in Parliament. 12.00 News. Hour. 10.03 The Robbie Vincent Telephone Programms, 1.03 pm London Live. 4.30 London News Desk. 5.35 Look, Stop. Listen. 7.03 Black Londoners. 8.00 Question Time from the House of Commons. 9.00-5.00 am Joins Redio 2. London Broadcasting 5.00 AM with Bob Holness and Douglas Cameron. 10.00 Brian Hayes. 12.00 LBC Reports. 8.00 pm After Eight Special—Jenniter Jaremy reports on the work of Community Service Volunteers. 9.00 Nightline. 12.00 LBC Reports Midnight, 1.00 am Night Evtra. 5.00 Morning Music. Capital Radio

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measurement (8) 5 View an attitude in flying-(8)

10 Decrepit car right in hole in road (6)

in pen (6)

a sense (5-5) 18 The mark of a murderer? (10)

23 Prison food? (8) 24 Deeply embedded type of

ornamentation (6) 25 Contemptuous wrongly resides outside 21 Listens to excursion leader

The Wombles. 5.40 News

7.20 The Dukes of Hazzard. 8.10 Panorama. 9.00 News. BBC 1 Indicates programme in black and white Howard, 6.40-7.55 am Open University

11.15 Bellamy's Europe 11.45 Weather, Regional News.

(Ultra high frequency only). 9.52 For Schools, Colleges. 11.25 You All Regions as BBC-1 except as 11.00 Play School (as BBC-1 3.55 pm). follows:-4.00 pm Music Time for Teachers (as BBC-1 12.10 Cymru / Wales -- 1.30-1,45 pm Pili Pala. 5.55-6.20 Wales Today. pm). 6.55-7.20 Heddiw. 11.45 News and 4.50 Open University.

The Dukes of Hazard.

(Leeds, Newcastle): Look Northwest (Manchester): Midlands Today (Birmingham): Points West (Manchester): Monday Film: "The Rollicking Adventures Of Eliza Fraser." starring Susannah York and Trevor

(Leeds, Newcastle): Look Northgrous (Monday Film Matines: "Women of the Year." 5.15 University Challenge. 6.00 About Anglia. 6.30 Survival. 10.30 Anglia Late News. 10.35 Everything in the Garden's Lovely. (Plymouth). 11.05 Monday Late Film: "Theatre of Death." 12.45 am Reflection. 9.25 Monday Film: "The Rol-6.40-7.55 am Open University,

Records.

11.30 Russian - Language and

9.30 am Schools Programmes.

10.20 Untamed Frontier. 10.43 Schools (continued). 12.00 Chorl-

ton and the Wheelies. 12.10 nm

Rainbow. 12.30 Doctor! 1.00 News, plus FT Index. 1.20 Thames News. 1.30 About Britain.

200 Against the Wind. 230 Monday Matinee: "Great Catherine." 4.15 Clapperboard.

4.45 The Latchkey Children. 5.15

8.00 Can We Get On Now

LONDON

10.45 Newsnight

People.

Money-Go-Round. 5.45 News.

6.35 Crossroads. 7.00 Linglalongamax.

9.00 Fox.

10.00 News.

RADIO 1

RADIO 3

6.00 Thames News.

7.30 Coronation Street.

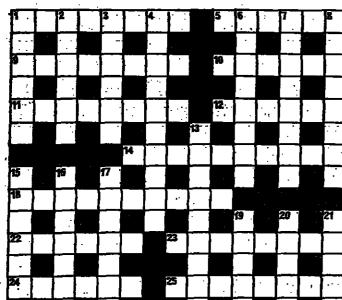
8.30 World in Action.

and Me. 11.40 For Schools, Col-Weather for Wales.
Scotland - 1.10-1.15 pm. The 6.55 Six English Towns. 7.25 Mid-Evening News, in-Scottish News. 5.55-6.20 Reporting Scotland. 11.45 News and Weather for Scotland. cluding subtitles.
7.35 Around with Alliss. 8.05 Bird Spot.

leges. 1.15 pm News. 1.30 Over the Moon. 2.01 For Schools, Colleges. 3.15 Songs of Praise from Northern Ireland-3.53-3.55 pm 8.15 The Waltons.

Portstewart, Northern Ireland.
3.53 Regional News for England (except London). 3.55 Play School. 420 Cheggers Plays Pop. Newsround. 5.05 Blue Peter. 5.35 4.40 Godzilla. 5.00 John Craven's Northern Ireland News. 5.55 Scene Around Six 6.28-6.55 Land 9.00 The Innes Book of 5.55 Nationwide (London and 'n' Larder. 11.45 News and 9.25 Brass Tacks. 10.15 Rock Athlete.

Weather for Northern Ireland. England—5.55-6.20 pm Look South East only). 6.20 Nationwide. F.T. CROSSWORD PUZZLE No. 4,286



ACROSS 1 I'd turn and pose for 1 Period of time that's rotten

9 Spiteful woman with a hairdresser in underground excavation (8)

11 Courageously making lady 12 Clammy article we precede

22 Red tip could be quaking 17 An increase in mathematics

front of park (8)

it's said (6) 2 Ridiculous literary composi-

tion ? (6) 3 Tone of voice that could be grave? (6) 4 Involved in twist together (10) 6 Type of bottle making ship's company stop outside (8)
7 Alienate eastern leader with

unusual following (8) 8 Staying behind, and trying to admit soldiers turning up 14 Audibly despatched wind 13 Typical of those opposed to instrument that titillates in the British? (10)

15 Sailor on stern to set free

16 Old king's rule for dressing at table? (4-4) (8) 19 Prosper heartlessly? It could be decorous! (6) 20 Strange offspring may be favourite (4-2)

in late transport (6)

RADIO 3

\$5.55 am Weather. 7.00 News. 7.05
Overture (S). 8.00 News. 8.06 Morning
Concert (S). 9.00 News. 9.05 This
Week's Composer, Schumenn (S).
10.00 Byrd concert (S). 10.30 Moura
Lympany piane recital, part 1 (S).
11.10 Interval Reading, 11.20 Recital,
part 2. 11.50 BBC Welsh Symphony 26 Pulling to the side of stage The solution to last Saturday's (6) prize puzzle will be published 27 Coming on stage to delight with names of winners next

New York music-2

however Parly duce an interest the Immigration i less than 500 th aircraft of the used in the car immigrants in old in certain to forfeited why ships and sin surge that are the in the import se be forferled

ilems oblems of entire orders prompt b re rushing into k emain in their or ven stay in the h :Eder

should happen posited by a chip nk; is the bank of any right it. r its clients about the 3ff at children held in education: Or the s been purchas ange for another chased with some S of crime? of the problem inting, there is h it afternous to the legislano: will

THEATRES

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AMSTORN A AND AN GIGGLO 1. WAL . PRAMIR L .

21.21

world-class wicket keeper, has five Test centuries to his credit than 30, which puts him into the all-rounder class.

fourth seamer.

The rest of the line-up is entirely predictable. The irresistable Botham, plus four batsmen Although there is a big differ—Boycott and Gooch, both very ence between Test and one-day much in the runs; Willey, who Cricket England's splendid lastplayed so well in the one-day over victory, set up by Boycott international; and the brilliant, and Willey's opening partner-

The three pace bowlers are:

Philharmonic premieres

by NICHOLAS KENYON

In early May the New York . It is in the field of imported militarmonic gave the world new works whose quality ought Krysztof to be known that objections enderecki's Second Symphony: have arisen. Josef Tal's Third it will be heard for the first time Symphony (which Europe at the Edinburgh brought to last year's Proms Festival. It is a baffling work, with his "other" orchestra, the To those familiar only with the Israel Philharmonic) could Penderecki of the St. Luke scarcely bear the weight of Possion or the Threnody for the being the Philharmonic's one Victims of Hiroshima, it will new symphonic work before the come as a shock, for the com-Penderichki: even heard twice, poser has turned his back on it has completely faded from the trappings of the avant-garde e trappings of the avant-garde my memory, leaving behind no tone clusters, no indeter-only a tinkle of nice marimba minacy, no unusual techniques noises. A work for orchestra of any kind — and has produced and electronics by Nono. Per a full-blooded romantic work bastiana Toi Yeng-Cheng, was a that sounds like an imitation of Bruckner, fleshed out with Strauss at his most grandilocurious choice when far more compelling (though longer) Nono works await performance quent and Shostakovich at his at the Philharmonic; in an unmost assertive. Even to these conversant with Penderecki's committed performance, this left a grey impression. most recent developments, in These performances instithe Violin Concerto and the tuted the unfortunate precedent opera Peradise Lost, the content of Zubin Mehta's speaking to of this latest piece must pose a the Philharmonic audience to problem. The idea for the work, "explain" a few points in the the composer says, came to idm on Christmas Eve last year, and he has incorporated into the music. He surpassed himself at the season's other premiere piece the music of the carol early this year, Gradations by the little-known Soviet com-Silent Night " and entitled the whole a "Christmas" symphony. Happily, the carol does not poser Vladimir Zagortsev, by making a passionate political deminate the music. But speech about the repression of through the 25-minute work, it Russian composers. He said

Zagortsev

casionally interrupts the blast-

ings of the brass, quietly gleaming on strings or wind like a

tipselled Christmas card. It

serves litle function except to

there are some strendous con-

tiapuntal arguments, and some

chestra. But I have rarely

leard a new orchestral work

Looking through Press re-

ctions in London back in 1966

o the St Luke Passion, which

was generally well received, I notice that William Mann attacked its "powerful aroma of

speciousness." It is difficult to avoid the conclusion that the

aroma has now become excep-

tionally strong. I shall be

the work prove me wrong.

commitment to new music, and

indeed programmes a good num-

ber of works. But they are

tucked away, usually in the first

fifteen minutes of a concert, s

that everyone has forgotten

them by the end of the evening.

Their quality has been variable

to say the least. With wholly

new works, of course, quality

Periman played with typical

verve is a vivid and lively

harmonic, turned out to be

left a pleasing impression.

dovious and so empty.

contrast with the material, and that equally motiveless. unexceptionable, and completely undistinguished. Zubin Mehta's direction of pwerful attacks from the full the Philharmonic has been popular with subscription audiences. But I have never found that seemed on first hearing so his concerts distinguished, and the orchestra sometimes plays very poorly indeed, with thin, acid string tone and ragged ensemble. An otherwise good account of Bruckner's Ninth was spoiled by a confusion among the first violins at the start of the slow last movement which should not have occurred in a professional orchestra; delighted if further hearings of and Liszt's Les Préludes came off by means of Mehta's It has been an unfortunate panache; Handel's Messiah was eason for the New York Phil quite jolly, in an unidiomatic harmonic's premieres. Zulim sort of way, and Mende Mehta proclaims strongly his Elijah was excellent. sort of way, and Mendelssohn's

probably

realise his piece was being

programme book there was a

charming, appreciative letter to

the Philharmonic from the com-

poser. Again, the piece was

didn't

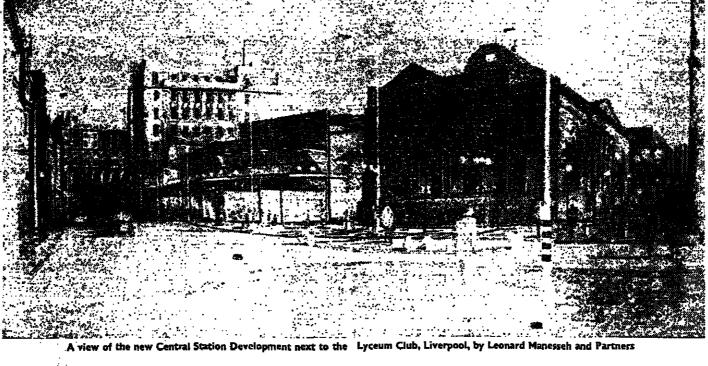
The best results at the Philharmonic this season have been achieved by James Levine and Andrew Davis. Levine conducted the fascinating Lyric Symphony of Alexander Zem linsky (which Gielen will do in London with the BBC Symphony Orchestra next season); and camot be predicted; yet there Davis brought the Vaughan cesses in this field. Earl Kim's well as the Strauss Alpine. Violin Concerto, which Itzhak Both made the orchestra play with cohesion and enthusiasm: there were still little slips, but work, loosely cast in the form at least the concerts were of variations, effervescent, vir- invigorating rather than enertuosic, and wholly enjoyable. It vating. A major problem at the would stand the transatlantic Philharmonic is the subscripcrossing. A new work for tion audience, which feels able french horn and orchestra by to enter and leave the hall at William Schuman, part of a any moment—it drifted out durworthy but tedious project to ing the whole length of the provide new concert for the Zemlinsky. It is clear that section principals of the Phil- Pierre Boulez failed in his cen tral aim of broadening his audiences' tastes. The Philattractive, well-made and melli andiences' tastes. The Phil-fluous in content. It was played harmonic must now find another by Philip Myers with creamy purpose, and a new quality, tone and supple phrasing, and lest it and its programmes stagnate completely.

Thames Television awards for dramatists

announced that three more play to encourage the development wrights have been nominated of promising talent, by selecting to join its Playwright Scheme. a playwright for a 12-mo attachment to the theatre. They are Gilly Fraser, author In addition to producing of Blame it on the Boogie (sponsored by the Royal Court Theatre). Catherine Hayes, author of Little Sandra (sponsored by the Playhouse; Liverpool) and William Grant, author of Shona Dancing (sponsored by the Perth Theatre).

Thames Television has £3,000 to the sponsoring theatre a playwright for a 12-month

In addition to producing one full-length play or other acceptable form of entertainment during the first nine months of attachment, participants are expected to involve themselves in other aspects of their theatre's work, thus gaining a first-hand awareness of the The Thames Scheme offers work of a theatrical director.



Architecture

The Summer Show by COLIN AMERY

displayed on the walls the drawings for a main drainage building, an obelisk for a new picture emerges quite clearly. town and a refitting station for submarines. These are just some of the submissions for this year's Royal Academy er Exhibiton on show in architecture room at Burlington House.

played in New York-yet in the The Summer Exhibition provides for architects, as it does for artists, a chance to exhibit rare. a wide variety of work in an important setting in a show that is much visited by the general public. It is a chance for the top architects in the profession to be seen alongside young, adventurous newcomers. The criteria for selection are rather unknown: it is rather like the old procedure for selecting the leader of the Conservative Party—certain old favourites will always emerge near the top of the heap; there is a genuine chance for a complete outsider to dazzle the selectors by sheer brilliance and an equally fair chance that some of the very best runners will not even approach the

> There are only 11 architect members of the Royal Academy and not all of them submit works. Some are too old and vincing outline of the scheme this building. The model is others prefer to show pictures and the Royal Institute of lovingly built and does show a that they have painted rather British Architects would be pleasing sensibility that is one. than show their buildings. In doing everyone a good turn if of the eternal values of archi-

> > Handel's Sacred

oratorio Belshazzar was given.

The performers were Andrew

Parrott's Taverner Choir—actu-

ally formed for the Festival

seven years ago—and Taverner

Players, with excellent soloists.

There were excisions, as always

(one of the two duets, some

recitatives and at least three

arias). Handel insisted on giving

the Haymarket audiences for his

oratorios value for money, and

might have been less welcome

than to the home audience for

the Radio 3 relay, which may

after all have been the last such

relay for some time.

The west face of the Cathedral

is still shrouded in scaffolding,

but the acoustic side (if not the

temperature) surpassed expecta-

tions for the oratorio. Only

some two dozen strong, the Taverner Choir sounded full.

taut and stylish as Medes and

Persians, Babylonians and Jews,

and at the diversion of the

Euphrates they could call up fine voices from their ranks for

the florid solo interjections. The

Taverner Players aim at instru-mental authenticity, but none

of the familiar frailties that go

with it were evident in their

crisp concerted attack. Parrott

paced an extremely lively per-

formance, even over-excited in

chilly Wells Cathedral

an unabridged Belshozzo

Bath Festival

There aren't many places in theory it should be possible to London, or anywhere else for wander along to Burlington that matter, where you can see House and come away with art of architecture as practised scheme, a new parliamentary in Britain today. This year the

Architects now have few opportunities to build large and prominent new buildings: they are forced to convert older properties or blend new smaller huildings very carefully with their surroundings. The chance of seeing an imaginative tour de force is pretty

An important example of the way things are going is the design for the Central Station Redevelopment in Liverpool by Leonard Manasseh. The importance of this scheme is that stands next to the Lyceum Club, a major neo-classical building by Thomas Harrison that the Government purchased to save from demolition. task to design his shops and offices to complement the simple elegance of the Lyceum. As his drawings in the Royal

Academy show he has opted for a carefully underplayed design that has a simplicity and scale that harmonise dis-The drawings in the Academy hardly show more than a con-

larly at Wells Cathedral, where half an hour shorter than pre- sort of effect. Tippett is not at

fingers did not have time to

freeze, and fake-Handelian

ponderousness was kept trium-

Belshazzar lacks a strong

protagonist, unlike for example

Soul, and in fact, the soft-

grained tenor of John Elwes

hardly offered the steel (or the

clean runs) required for the

name part. Otherwise the casting

was impeccable, with notable

soprano Patrizia Kwella as Bel-

shazzar's anxious mother, and

by John York Skinner's

counter-tenor prophet Daniel:

sounds like a Handel fugue-

subject.) Carolyn Watkinson

was a poised and kindly Cyrus,

one of the less likely breeches-

roles in the repertoire, and the

bass David Thomas was firmly

sonorous everywhere but in his

slightly fuzzy diatribe against

dramatically effective re-creation

of a somewhat neglected score.

Tippett celebration—yet another

to mark the composer's 75th

Altogether this was a vital,

down, Nebo stoopeth"

scored

phantly at bay.

successes

Belshazzar.

it could display regularly good schemes like this one in some detail. There is a strong public interest in architecture and the presentation at the RA just whets the appetite. Carefully fitting in with

neighbours was a problem faced by the President of the Royal Academy and his architectural practice when they were commissioned to produce a study for the new parliamentary buildings to occupy the site across Bridge Street from Big Ben. Sir Hugh' Casson's design is good neighbourly to the point of self-effacement. As it will never be built it is hard judge whether this prominent public site was the right place to decide to be invisible or not. Architectural loss of nerve is not evident in another building designed for a sensitive site, a scheme for the new boarding house at King's chool, close to Canterbury Cathedral. This is designed by the excellent firm of Maguire and Murray.

They show a very attractive model at Burlington House of a cluster of buildings that are traditionally designed-that is to say they are in scale and materials exactly what should be built on this site. Pitched creetly with his neighbours. roofs, garden walls, bays, courtyards, these are all the agreeable elements that will comprise

Champagne Alley in the Kings Road, by Campbell Zogolovitch Wilkinson and Gough. There is a whole wall of drawings by Richard Rogers for his schemes Handel and Tippett at Coin Street, Lloyd's of London, and offices at Cam-The draughtsmanship and The Bath Festival calls regu- the latter stages (it ran almost anniversary-made a different

> put Mr. Rogers in a class of his own and it is gratifying to special interest of the recital see that he is now an Associate lay in hearing what performers of the Academy. Another new of a new generation can find in architect associate is Philip his music. In the case of Philip Dowson who has for some years Mead, who tackled the second been one of Britain's best and third piano sonatas, the architects working with Arup answer was glittering textures, Associates. His proposals for cool athletic energy and little Worcester College, Oxford, show more. The strident lyrical edge his distinctive sensibilities. which the earlier sonata shares One of the advantages of the with the opera King Prigm was Academy is that it does give blunted; the Lento of the latter you some warning of troubles ahead. I suspect that the new one brooded sympathetically, but its long Finale chattered on Tolmer Square development by

in it whatever. Martyn Hill sang "Boyhood's after his brilliant first aria, it End" in a three-piece suit, was a pity that he was rushed through "No! to thyself thy freshly and brightly if without visionary intimations. Some (All the text is similar emotional constraint narrowed the range of the pithily eccentric: "Bel boweth cycle The Heart's Assurance too -but it must be said that the Assembly Room adds an uncomfortable glare to the sound of voice and piano, even with the scrupulous John Constable at the keyboard, and the cautious elegance Hill contrived was an impressive achievement. With Timothy Walker's guitar in the "Songs for Achilles" he reached further into Tippett's expressive idiom, though the pain and

as if Mead discerned no shape

arm's length. DAVID MURRAY not be examined at eye level.

TENNIS BY JOHN BARRETT

sense of loss in it were kept at

Liège Opera Festival—1

Cyrano de Bergerac

by RONALD CRICHTON

The recent, week-long opera festival at Liège was part of this year's celebrations for the millenium of the city that was once a prince-archbishopric. These the independence of Belgium, interval. Liège, with leafy parks and gardens and an admirably tidy river-front (the Meuse, rolling northwards towards Rotterdam. carries an impressive amount of barge traffic), is a prosperous-looking place, with plenty of history left among the tower blocks—no world-famous tourist sights but fine churches and museums, a vast princely palace

and excellent restaurants. The opera, now called the Centre Lyrique de Wallonie," is housed in the early 19thcentury Theatre Royal in the city centre. In front is a statue of Gretry, a local boy (César Franck was born in Liège, too, but no opera house is likely to remember him). Beyond the statue is the site of the former cathedral of St. Lambert, gutted at the time of the French Revolution—some of the cathedral stone was used for the theatre. Remembering the makeshifts to which we are reduced for the housing of opera in our main provincial cities, it is sometimes painful to see how differently the ground is prepared in Euro-

tecture. There is nothing slick

or gimmicky here—just honest

good building.

Some of the younger prac

tices in the exhibition could

learn a great deal from the

integrity of a design like Maguire and Murray's. There

are signs that in a serious

attempt to come to terms with

the current architectural climate

some of the younger practices

are ready to deal a pretty

random selection of cards from

the pack of styles. The climate

is in favour of a renewal of

traditional architectural virtues

-careful scale, truth to

materials, and the development

of a language that is not un-

related to the world of buildings

that we have all grown up with.

ture cannot be "modern"

This is not to say that architec-

belong to its own time. Now is

the moment for an assertion of

those architectural skills that

are responsive to both a sense

of place and the historical

There are, alas, examples in

the Royal Academy of designs

that are nothing more than

pieces of meretricious pastiche.

But there are plenty of good

commend the Court House infill

scheme by Trevor Dannatt, the

new Faculty of Arts at Bristol

University, and the new student

rooms at Worcester College.

Oxford, both by MacCormac and Jamieson, New Street at Milton

Keynes, by Stephen Gardiner,

technological preoccupations

Renton Howard Wood Levin

Partnership would look more at

home in Dailas and the new

building now rising at 66, St.

James's Street by Rodney

Gordon looks as though it might

find it cuite difficult to get on

with its less flashy neighbours. No Summer Exhibition would

be complete without a linocut

by the architect Quinlan Terry

-he remains unmoved by the

tides of fashion and quietly pro-

duces a steady flow of modest

buildings in the classical tra-

the display at the Academy-

why are architectural models

hung on the walls as though

they were paintings or reliefs?

It is impossible to see how the

buildings will look if they can-

I have only one grouse about

dition.

imagination.

pean countries. The centre Lyrique, a lively, well - publicised institution, serving other Francophone towns as well as Liege, giving (ballet included) some 250 performances annually, designed an enterprising festival programme. The centre itself contributed the world premiere of a new Belgian opera, Paul Danbion's Cyrano de Bergerac, and a production on a smaller stage of Marcel Landowski's Opéra de poussière. They invited the company from La Monnaie in Brussels with their recent production (the first in Europe) of Menotti's The Hero and the Flemish Opera from Antwerp with Idomeneo. At the same film festival and an international opera congress attended by delegates from several lands the first of a triennial series.

Intentionally or not the choice fell mainly on modern operas accessible to that majority public rightly believed to be shy of contemporary scores of any staff. directed by Götz Friedrich difficulty. The new Cyrano is and conducted by Solti-filmed a latterday example of the old in Berlin, recorded in Vienna (nominally two acts and five) in the title role. No opera scenes, but those scenes are not could have Intendent, leaving Cyrano's big another article.

Rostand is already operation abundant opportunity for solos, duets, martial scenes for the celebrations in their turn are Cadets de Gascogne, ballets and part of the 150th anniversary of an ensemble finale before the

The composer Danblon, an

intelligent, articulate and versatile man (scientist as well as musician, responsible for popular scientific programmes on Belgian TV). deliberately and unapologetically uses an easy musical language. The vocal lines are grateful to hear and to sing. Words come over pretty well and with them something of Rostand's unquenchable verbal panache, but the score is too mild-mannered to provide an equivalent musical virtuosity. And the gift of dramatic timing which could compensate for lack of adventurousness is not there. The battle scene and the death of Cyrano in particular need firm

pruning.

Leporello.

company. In the conventional way suitable for this score, the producer Philippe Rondest built up the big scenes effectively and was as successful as available talent would allow No allowances were needed for Cyrano himself, sung and acted apparently fathomiess reserves of tone and physical energythough the music does not strain one. The Roxane was Andrée François, a French lyric soprano charming in the balcony scene -when this is set to music there are inevitable undertones of Don Giovanni and

The staging was a brave

achievement for a medium-sized

Albert Voli, an experienced light tenor, sang Roxane's lover Christian, Armand Battel was his rival, de Guiche. The designs of Marie Claire Van Vuchelen, sometimes over-generous with time Liège was host to an opera hot colour in the interiors, were at their best in the battle scene. Roger Rossel conductedmore determined propulsion might have reduced the impression of length. The premiere of Cyrano took place on a Sunday afternoon. That evening the film festival opened with Faltraditional opera in five acts -with Bacquier, again, masterly short). The text of Rostand's pointed the virtues of conplay has been condensed by cision. Menotti, Landowski-Raymond Rossius, the Liege and Mozart-must wait for



CRICKET BY TREVOR BARLEY

Woolmer and Knott back for Test Paris—no place for the faint-hearted

Test sees the return to the fold: Hendrick, back to form after of two more World Series an operation; and the depend-Cricket outlaws, Woolmer and able Lever, who can bring left-Knott. Underwood is also in- arm variety to the attack. The capacity crowds for both These selections are entirely Productial Trophy matches last

THE ENGLAND 12 for the First form of two summers ago;

logical if we are to field our week illustrate the appeal of strongest team. This is essential limited over cricket. against the West Indies who are Playing these games immepotentially the most powerfulpotentiany the most powerful diately before the start of the country for a very long time. Test series, instead of afterwards, gives them the impact Woolmer is a proven, in form and importance. However, three batsman, and an above average rather than two meetings are

Knott, in addition to being a balanced competition. It seemed strange when Clive and a batting average of more. Lloyd received the Prudential Trophy at Lords-on the basis of a higher run rate over two Underwood is a great spinner matches — immediately after and a match-winner in certain England had won a thrilling game to level accounts. A decider would have been a

needed to provide a properly

natural and a sell-out. Although there is a big differ-

very limited experience in this ship, could have a considerable effect on the series. Willis, who has rediscovered his First; from the financial angle,

land had lost easily. Secondly, it has given England

be scored off formidable pace Thirdly, the opposition tended

to panic under pressure, which was noticable in the field, at Headingley and Lords. They were also shocked by this unexpected defeat and now have a worrying casualty list. They could well be down to 13 players for the Test and these could several

Anyone who still doubts that it pays to be an opening batsman in limited-overs cricket, irrespective of the quality of the bowling, should look at the Botham will prove an inspiring scores of the four who did; they all made runs. The two captains, Vivian

Richards and Ian Botham, have

role, which did show at times.

Why did the best attacking Willis and Underwood.

it should guarantee bigger batsmen in the world not come crowds for the first Test at in at number three after the Trent Bridge on Thursday. It openers had provided a sub-has increased interest when stantial base from which to hopes could have faded if Eng-launch a sustained assault? Ian Botham is an outstanding

attacking bowler, as his Test a psychological boost. The team record shows. One of the has demonstrated that runs can main reasons for his success is that he bowls a very full-length and is prepared to experiment.

The half volley, for example. which swings late is a potential wicket taker, but at the moment Botham is not ideally suited to deliver the last few overs in a one-day game when containment not wickets is the prime consideration.

The West Indian tail found him easier to hit than Willis, who was the best and the most economical of the England bowlers, but did not complete his full quota of overs. · However I am sure that

leader, as he demonstrated so dential games.

well with the bat in both Pru-England: Botham, Boycott, Gooch, Tavare, Gower, Woolmer, Willey, Knott, Lever, Hendrich,

point of the European season. The emphasis begins to shift from clay to grass as players prepare for Wimbledon, now only three weeks away.

The fulcrum is the French Championships. The successful take part in torrid encounters in the second week. The defeated lick their wounds and cross the Channel as late entries to the Kentish Times Beckenham Tournament and the Cold Shield Northern Champion-

ships in Manchester. Paris last week was no place for the faint-hearted. The two top American men were exposed to the tortuous demands of slow European courts,

The new U.S. No. 1 McEnroe, suffering from back and ankle strains and a nasty blister on his playing hand, was eliminated in four enthralling tie-break sets by the studious and patient Australian Paul McNamee, who has added a double-handed backhand to his repertoire.

Jimmy Connors, the man supplanted by McEnroe at the top of the U.S. rankings, survived magnificently in five sets

Jean Francois Caujolle, the young Frenchman, also a left hander who had beaten him in Monte Carlo.

Both matches provided the classic contrast between attack and defence and gave us some spectacular rallies combining power with guile. The tension before 16,000 vociferous fans was considerable and court behaviour less than perfect.

There were altogether too many audible expletives and vulgar gestures for the good of the game and the fines of more than £500 imposed on the two Americans may act as a ground alongside the new No. deterrent to others.

These 50th French championships, bursting with confidence all-weather courts but which is and vitality, are a remarkable now the site of a talented comtestament to the industry and drive of the French federation under the leadership of their mirrors the general health of energetic president Philippe the game in France. The federa-Chatrier who combines that tion confidently expects to role with the presidency of the enrol its 730,000th licensed International Federation.

The development programme 1979). at the attractive 52-year-old site on the edge of the Bois de lenge West Germany where Boulogne, started in 1975, will there are 1.2m registered

TODAY MARKS the turning from match point down against be completed next year at a total cost of almost £3.5m. This year the new circular No. 1 court was unveiled—a

delightfully intimate amphitheatre with 4,100 seats each with a perfect view. Unfortunately the designers have perpetrated the same mistake as the architects at Flushing Meadow, in New York, where the stadium court contains pedestrian walkways on the inside of the arena so that it is impossible to prevent movement behind the players.

French teams will train in the new indoor courts built under-I court in a building whose roof will normally support three mercial village.

The new Roland Garros player this year (650,000 in

Eventually it hopes to chal-

Britain is revealing: here 137,80 club players pay contributions.

The British interest in Paris ended abruptly yesterday. As expected. Buster Mottram lost 6-2. 6-2. 6-3 in a match unfinished from Saturday to the new Italian champion Guillermo

The Argentine No. 1 now plays fellow left-hander Manuel Orantes of Spain and must then beat an American — either Harold Solomon or Brian Gottfried-if he is to challenge Bjorn Borg in the semi-final.

Virginia Wade fought bravely hut unavailingly for 2; hours in losing 6-0, 6-7, 6-2 to the Argentine No. I Ivana Madruga -a third loss to the same girl in recent weeks.

Meanwhile. Chris Evert-Lloyd continues her comeback with growing confidence. Yesterday she recovered from a one-set and 1-3 deficit to score a 4-6. 6-4, 6-4, 6-3 win against Bettina Bunge, the Swiss girl born of German parents who lived for years in Peru and now resides at Coral Gables,

Florida.

FINANCIAL]

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Monday June 2 1980

Two-thirds of a loaf

EEC over Britain's budgetary contribution, Mrs. Thatcher said a loaf." It is now clear that she will not have to. The deal brought back from Brussels at than looked remotely conceivafter the acrimonious Duhlin summit last November, when the Eight offered a rebate. of £350m on what was meant to be a take-it-or-leave-it basis. It Thatcher rejected in Luxembourg in April, and can justifiably be presented as at least two-thirds of a loaf."

In that respect, it can only be said that Mrs. Thatcher's tough negotiating tactics have been largely vindicated. From the peginning it was clear, or should have been clear to the detached observer, that Britain had a strong case. It was not right that one of the poorest Community countries should be its chief paymaster, the British had a long-standing commitment from their partners that such unacceptable situation should be corrected; and the size of the UK deficit was threatening further to undermine the commitment of the British people to European integration.

Trump card

Mrs. Thatcher's trump card. the threat to veto the latest round of farm price increases. in the end turned out to be a strong one. France's riposte, the counter-threat to go ahead with unilateral measures to help its own farmers, never looked par-ticularly convincing. In the first place, the idea was firmly opposed by a number of other countries with strong farming interests. In the second, it would have been one of the greatest ironies in Community history if it had been France that delivered the most stunning blow yet threatened to the principles and practice of the Common Agricultural Policy, which have always been sacrosanct in

French eyes. Mrs. Thatcher has achieved is only a small im-Luxembourg for this year and is now a provision for the system again. to be extended for a third year, if necessary, and the need for structural changes in Comnised. This can only mean reducing the proportion of the help the Community to start budget spent on the Common tackling the other important

AT THE beginning of her long the spackage includes a settle-wrangle with the rest of the ment of the irksome Anglo-French tamb war, which is excontribution, Mrs. Thatcher said pensive for the Community but she would not settle for half beneficial to Britain, and an innoculous statement on the Commore Fisheries Policy. Britain has resisted French demands the end of last week by Lord that it should abandon its Carrington is a far better one formal right to veto farm price increases next year, in exchange for a general pledge of good behaviour.

It is, of course, not perfect. Britain is likely to remain the second diggest contributor to the is also better than the deal Mrs. Community's exchequer and it is difficult to describe the outcome as constituting the broad balance on which Mrs. Thatchest originally insisted. There is no provision for what might happen at the end of the three specified years and there can be no guarantee that the Nine will implement : in the Community's changes financial structures that have been promised. The farm price increases are too high and the lamb deal is unpopular with New Zealand.

But it was always clear that the final result would have to be a compromise. In their own terms, the other countries have been more than generous. They have been pushed much further than they ever intended to go, and then a bit further. If that is partly due to Mrs

Thatcher's tactics, it is also due to the other eight countries recognition that failure could have placed unbearable strains on the Community, possibly leading to Britain's withdrawal Moreover, however successful she may have been. Mrs. Thatcher has brought a great deal of ill-will on herself. If she has demonstrated that the threat to veto farm price increases is a powerful weapon, she has also demonstrated that it is not the ideal way of doing business in the Community Within the next two years or so, budgetary ceiling provided for -under the present financial system. It is to be hoped that the Nine can agree sensible provement in financial terms budgetary and agricultural reover the deal she rejected in forms before then, without the need for Mrs. Thatcher to Meanwhile. Mrs Thatcher and her Government should say a grateful "yes" to the latest offer, begin showing munity spending has been recog- that Britain is also capable of enthusiasm about Europe, and

The perils of pay comparability

Agricultural Policy. The rest of challenges that it faces.

THERE COULD hardly be a clear object lesson on the perils of relying on "pay comparathan the row over nurses pay which has broken out as a result of the recent pay increase for National Health doctors. Having come very near to accepting a pay offer within the Government's 14 per cent cash limit two weeks ago (on top of January's 19 per cent Clegg award), the nurses are now talking of industrial action to back a demand for 18 per cent, to match the doctors' increase. Their complaints against the 14 per cent offer are centred not on the shortages of nursing staff many hospitals are experiencing, nor even on the fall in real living standards that 14 per cent may be argued to represent. What has really incensed the nurses is the insult which they feel they have suffered because of the Government's generosity to doctors.

Sympathy

Nursing is undoubtedly an profession and higher pay for nurses is a cause which will command a good deal of public sympathy, at least so long as nurses are not tempted into heavy-handed industrial action of a kind which they have so far eschewed. But if a confrontation with the nurses proves unevoidable, the Government should not hesitate to underline the fact that the nurses' demands are a blatant product of "culture of envy" which the Prime Minister has re-

peatedly denounced. For, while it is certainly arguable that the Government was wrong to grant doctors en inflation adjustment of 18.7 per cent, on top of the 10.7 per cent comparability award which they had already been promised, this in no way justifies further profligancy in the treatment of nurses. The pay of workers for Downing Street with the suggeswhom the Government is a tion that relativities between monopoly employer must be a them and doctors should be matter of Government policy, restored by reducing doctors' but the aim should be to pay, rather than by increasing ensure a balance between that of nurses, the Government supply and demand for specific will know that its attempts to kinds of labour. It should destroy Britain's inflationary emphatically not be to pass inflationary settlements from one group of workers to

In an economy steeped in inflation, a preoccupation with comparability and "fairness might be perfectly healthy in a non-inflationary society, unfortunately ensures precisely that mistakes are compounded, as each group of workers compares itself with those other groups which can be used to justify the highest pay increase. It is to prevent this kind of pay leapfrogging the Government has imposed an increasingly savage monetary squeeze on private industry. Cash limits were supposed to mirror these monetary pressures in the public sector and, ever since it came to power to explain the simple principle that, under these constraints, more money for one group inevitably means fewer jobs, or less money for someone else. Unfortunately, the Govern-

ment's own actions have so far, belied its words. Cash limits have been adjusted or fudged to accommodate high pay awards. Even where job losses have resulted from excessive pay settlements, they have been achieved by cuts in recruitment, rather than through redundancies -

Welcome sign

Some of the health workers' leaders have, in fact, voiced this objection to the level of the doctors' pay increase, which is perhaps a welcome sign that the realities about the operation of cash limits are at last beginning to sink in. But if the nurses were worried about the effect that the Government's generosity to doctors would have on health service jobs or on the care of patients, they would not be clamouring for more than 14 per cent themselves. When nurses come to tea at psychology have succeeded Only then will it be safe to disinter the idea of comparability in public sector pay.

The Labour Party still on speaking terms

ence intact, but it con-Party. It would be easier to describe

what happened at Wembley on Saturday if, as is sometimes popularly supposed, there were only two factions—the left and the right, or the militants and the moderates. The trouble is that such a simple analysis defies the evidence. The divisions in the Labour Party run deep, but they are not clear-cut. There are all sorts of armies in the field, but it is far from certain with whom they will finally

Here are just two initial examples of the way loyalties have not yet been decided. Mr. Anthony Wedgwood Benn, who wound up the conference with the claim that "welfare capitalism is no longer on offer to the people of this country," received a standing ovation. Or rather he did up to a point. The delegates from the trades unions conspicuously remained seated; so did the great majority of Labour MPs. It was the delegates from the constituency parties who cheered.

unions support Mr. James Callaghan, the Party leader? Far from it. Mr. Calłaghan received no applause at all when, in the central part of his speech, he stressed the case for incomes policy. Several union leaders went to the rostrum afterwards to attack him for his presumption. Thus the unions do not like the former Prime Minister for his continued emphasis on wage restraint. But neither do they trust Mr. Benn.

Something somewhere is missing, both in terms of policy and personality, around which the Party can unite. Paradoxically, it may be the absence of strong leadership which holds the Party together. Since nobody has yet won, hardly anybody is threatening to leave. Yet the battles continue. The most interesting news to emerge from Wembley is that the left-by which is meant section of the Party, mainly from the constituencies, which groups itself around Mr. Benn-is worried. It is worried because it believes that the gains it made at the annual conference last autumn are in danger. The gains concern mainly the mandatory re-sciection of MPs and the control

The counter-attack has come of from the Campaign for Labour Victory, a grouping whose bestknown associates include Dr. David Owen, Mr. William Rodgers and Mrs. Shirley Williams. The CLV has hit back by stressing the generally unrepresentative nature of the National Executive Committee. which is currently dominated by the left and which produced the policy statement debated at Saturday's conference. Some of the major trades unions have also called for the reform of the NEC in their evidence to made outside Parliament.

THE LABOUR PARTY has the Commission of Enquiry into survived another confer- the future organisation of the

> It was the signs that the campaign for changes in the NEC was gaining ground that set the alarm bells ringing on the left. There can be no mistaking how seriously Mr. Benn and his supporters take the threat. A new committee, known as the Rank and File Mobilisation Committee for Labour Democracy, was formed last week in order to mobilise opinion in the constituencies around Mr. Benn's views. The Trotskyite Militant Tendency has been invited to join ...

An editorial in the committee's first publication begins as follows: "Let there be no doubt as to what is happening. Last year's gains for democracy are in danger. Opponents of reform led by a majority of the Parliamentary Labour Party, a minority of trade union leaders, and the Campaign for Labour Victory, are determined not just to reverse the modest democratic advance achieved at Brighton, but to completely do away with the influence of the rank and file.'

Essentially the struggle is about who makes party policy; the Parliamentary Party or the annual conference dominated by the NEC. Mrs. Frances Morrell, a close adviser to Mr. Benn. told a lunchtime meeting at Wembley on Saturday that the Mobilisation Committee was playing for "very, very high stakes." There would be, she claimed, " a fundamental alteration in Brtiish politics" if the Labour Party in Parliament was pledged to carry out Labour

Mr. Reg Race, a Labour MP who supports Mr. Benn, told the same meeting that the aim of the Parliamentary Party was

The left is worried that conference gains are in

to replace such left-wing members of the NEC as Mr. Benn. Mr. Eric Heffer and Mr. Dennis Skinner by people like Mr. Denis Healey, Dr. David Owen, Mr. Eric Varley, Mr. Roy Mason and Mr. William Rodgers, The names of Mr. Healey and Dr. Owen were booed by the audience. The name of Mr. Who? " Those of Mr. Mason and Mr. Rodgers were hissed. Mr. Benn puts the case for the changes he wants with less venom but more guile. believe we've got two parties. the Parliamentary Party and the Labour Party, and our reforms are really designed to do two things: to give Labour MPs a bigger voice in government. but. and this is the countervailing element, to

make them accountable to the

Party." It is still the same case:

namely that policy should be

Mr. Callaghan-showing a new determination and no signs of imminent retirement. As it is, Mr. Benn and his A man who says that "free supporters have every reason to be concerned. There are neither social justice nor signs that the more moderate members of the Party are coming together again. Mr. Rodgers equity" and who warns that there must be a "firm and and Mrs. Williams have ended clear understanding" with the their flirtation with the idea unions on the criteria against of a third or fourth party, and

that is over. There are also others, less involved in infighting over the Party's constitution, who can hardly want Mr. Benn to pre-Mr. Peter Shore, for example. Besides, as already indicated, Mr. Benn cannot be sure of the support of the unions. The battle will be resumed at the annual conference in Black ool the results may be inconclusive.

are again working from within.

There was a time when Mr.

Rodgers and Dr. Owen almost

stopped seeing each other when

going off on his own, but all

the former was thinking of

If only it were all as simple as that: a wrangle over the constitution. There is also the matter of policies and personalities, and not least the position of Mr. Callaghan. Mr. Callaghan did not behave at Wembley like a man who plans to retire in a few months' time. Indeed he seems to have come back from China with a new determination. He stood up to the unions on incomes policy and he stood up to the left on unilateral nuclear disarma-

collective bargaining as pracwhich wage increases will be measured before the next general election does not look as if he is preparing to quit.

The case of Mr. Callaghan's

staying beyond the autumn is

twofold. First, he may be able to reach an agreement with the unions on incomes policy in a way which nobody else could. Certainly he behaves as if this would be the culmination of his eareer. Second, the claims of his would-be successors are not great enough to necessitate a decision this year. There would still be time for a new leader to establish himself before the general election if Mr. stavs at

The case for his going is that he can do so gracefully. If he stays beyond the autumn, he risks the development of a "Callaghan must go" move-Ministers who have been most loyal to him, though who are not of course disinterested. there is a feeling that he should go, and probably will

For the moment nobody knows, perhaps including Mr. Callaghan himself. Mr. Healey, the most obvious beneficiary

tion, ought to have it out with him in private in the not-too-distant future.

Since we do not know who the new leader will be, and the outcome of the constitutional struggle is still uncertain, it is even more difficult to make predictions about future policies. The document before the Wembley conference exposed for what it is: a ragbag of old resolutions stitched together without any kind of

As Mr. Heffer pointed out with obvious gratification from the platform, the policy statement was attacked far more by the so-called militants for being too moderate than the other way round

intellectual distinction

criticisms came from Mr. Eric a former junior Minister. It was Deakins, Labour impossible, he said, to have planning framework, yet the document says nothing about it. In any case, who would administer them? The Treasury? Not a very satisfactory solution commitments that Labour from a Labour point of view. The whole of the statement, he went on was based on the assumption of high economic growth. Yet it was precisely that that successive British is still running for the Con-Governments had failed to servatives. It will not be reachieve, and there was even less reason to assume high growth in the future.

Mr. Deakins's remarks could from an early leadership elec- have come equally well from the

left or the right: either way they exposed the weaknesses of the document. The other gap concerns incomes policy, about nothing, and was exposed by Mr. Callaghan.

Mr. Heffer promised that the Party's rolling Manifesto, which will be published before the autumn conference, and updated every year, will be considerably more radical. But that is not the point. The statemen debated and overwhelmingly approved on Saturday is not so much radical as unthinkingly

reactionary.

It is written as if the failures of the past—the inability to achieve growth or the redistri-bution of wealth, the establish-ment of inefficient and unpopular bureaucracies had neve taken place. It assumes that Labour was voted out of office not because it intervened too much, but because it intervened too little. It promises bureau-cracy writ large. It has no hirman face.

And yet that criticism is obviously not true of the Party as a whole. It is still on speak-ing terms. It still makes jokes. The conference is still unpre-

The message that people life Dr. Owen and Mr. Rodgers tock away from Wembley was thirt it could have been worse. The first year or so in opposition is always bad as the Party fights over the past. But the divisions so far have not solidified. Their time to learn from past mistakes and to formulate new policies before the next eletion. There may have to be a fight to the death and a party split at some stage, but certainly not yet and maybe not—the thought is sometimes heard until the Party loses again in

One's own view continues to

There are signs of the more moderate members coming together again.

be that the future of the Labour Party depends on what happens to the Conservatives in office. if the Tories' economic experi-ment works, it will be futile for Labour to fight the election on a platform of state controls, planning agreements and nationalisation. Equally if the Tories now come planning agreements without a Europe and show that the relationship works, it will be point-less to campaign for British withdrawal

Meanwhile, the fewer specific makes, the better. The task is to show that Labour can again become a thoughtful, imaginaintellectual tide in the country versed simply by offering old policies that have been shown to pave failed.

Malcolm Rutherford

MEN AND MATTERS

Promotion by poll for Julien

Journalists on Le Monde, the mighty newspaper French Gov-ernments love to hate, yesterday completed the unique process of electing their next editor. The choice, doubtless to the chagrin of President Giscard, appears to herald a further swerve to the left in 1983 when the victor, Claude Julien, takes over from Jacques Fauvet, Known for his strong leftist

views, Julien has been criticised by colleagues for the alleged bias towards the third world which has characterised his style of editing the paper's monthly supplement. Le Monde Diplomatique.

three months of inconclusive balloting, Julien scraped up the necessary 60 per cent of the journalists' vote to ensure his elevation over the head of compromise candidate Alain Jacob, Peking correspondent.

In his 29 years on the paper he has seen it develop into an institution in the French-speaking world, unrivalled in influence and with a defiantly independent staff of writers. Indeed, the journalists have taken extraordinary steps to protect their right to publish what they, rather than their proprietors, see as the correct view of France and the world. Their sense of security is nively bolstered by their 40 per cent shareholding in the paper -- a blocking minority.

"He is not a Marxist," says one journalist who voted against "but he is very dogmatic." Evidence of this characteristic is to be found in a recent book in which the editor-elect wrote sioner of Police in this finanof Press men: "Those who try to think and write have no option but to reyeal what all largely descended from British authorities try to hide. That is seafarers-including pirates and Khan. the duty imposed on anyone castaways—is said to be the who wishes to observe, analyse, most law-abiding in the Carib understand and explain."

Subtle, too, Julien yesterday during a recent two-year attachassured his colleagues that ment to the islands' CID, the under his editorship Le Monde jolly roger has been sighted would not become, like the again as buccaneers with god-



" I see sister didn't leave any space for our opinions . .

supplement, "a journal of opinion." but "a journal of opinions"—a difference that is even more obscure in French since it has to be spelled out.

Sharks ahoy

Regardless of the questioning looks being cast in the direction of our police force at home, overseas opinion of the thin blue line-which made its reputation in Anguilla and reinforced it in Zimbabwemains as high as ever. Word has spread to the Cayman Islands, where, I am told by Jim Stowers, an assistant chief constable from the West Country, the people are "keen to develop a policing style similar to that now operating in Devon and Cornwall.

Keen to help, Stowers exchanges his blue serge this month for tropical kit and heads west to become Commisciers' paradise. The indigenous population.

bean. But as Stowers learned

fatherly connections attempt to of the herbicidal brew 2,4.5-T. take advantage of generous com-

A race apart

horse racing had been exempted from the ban on gambling in the Ayatollah's Iran may have been premature. It seems the religious proletariat considers the sport of kings an inappropriate diversion in these revolutionary times.

I gather that after only two days of racing a group of zealots moved in to unsear the The complex at Farahabad has been occupied. the invaders say, because it has become "a centre for gamblers, prostitutes. counter-revolutionaries and foreign elements."

Now the course is being used as a transit camp for drug addicts. More than 3,000 have been rounded up and will be held under starter's orders before being dispatched to less congenial surroundings in prison.

The wholesale forgiveness of former enemies of the people continues apace in China. The Shanghai chamber of commerce, for example, is currently boasting that more than 50,000 former industrialists and businessmen have been brought back from exile in the paddy fields to work once more in the city. They even have equal rights, the chamber says, "the same as even stand in company leadership elections."

All fine and good. But I feel that rehabilitation fever seriously affected the sense of perspective of the organisers of a recent celebration to commemorate a man described as "en outstanding military and political leader who played a progressive role in the developsociety "---Genghis

Pot-shots

Although most of the flak has so far flown their way in the battle over the alleged dangers

the farmers and foresters who are kept in business these days by such chemicals have now launched a vigorous rearguard

Accusations of damage to human health, they say, are all eye-wash. And they claim authorities in Oregon were My disclosure last week that

gulled into accepting charges as proven when they banned the use of the chemical in the Alsea forest region where the "killer spray" scare started. The Government should examine not the health of country dwellers but the contents of their ashtrays. There, farmers claim, will be found traces of the second most popu-

> ceptible to the effects of the chemical in question. "The marijuana connection." says Robert Matthews, a director of the Washington Forest Protection Association, is the reason why the campaign against 2,4,5 T is being waged with increasing fervour and now extended to include most other weedkillers in

lar smoking material in the

States: shreds and ashes from a

plant which is particularly sus-

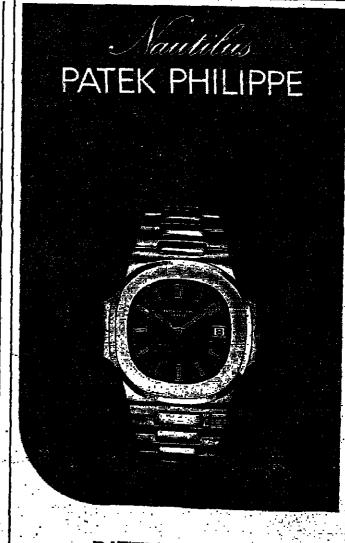
use in the U.S. According to Matthews, backed by the local sheriff, the isolated forest area of Oregon where the whole controversy started, contained one of the heaviest concentrations of illegal marijuana plantations in the state. How curious, the beleaguered foresters note, that where ever the protests are other workers, and they can strongest there are also bloom the lushest crops of cannabis sativa. nestling between the weed-choked trees.

No choke?

"I am sorry it took so long," a kibbutzim told a U.S. visitor after a four-hour walk round the Think nothing of it. Back

home it takes me three days to drive across my farm." "What a coincidence," the guide replied, "we used to have a car like that."

Observer



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FINANCIAL TIMES SURVEY

Monday June 2 1980

MATERIALS HANDLING

Today's complex materials handling industry faces a challenging and potentially highly rewarding future as it responds to the growing sophistication in many industrial sectors.

A large and diverse industry

By Hazel Duffy

MATERIALS HANDLING is an essential and frequently high-cost element in the production and movement of goods and materials to the point of con-sumption. The term covers the handling of component parts in the factory during the process of assembly, the movement of stelworks, coalmines and clemicals factories, as well as the storage and distribution of products, and the movement of reight, and passengers, at ports, airports and so on.

The buge range of materials handling requirements has led to the creation of a large and diverse industry which can design and instal a completely automated warehouse at one end of the scale to providing a replacement piece of lifting equipment at the other.

As an industry, it faces a challenging and potentially highly rewarding future as it responds to the growing sophistication of production and extraction methods. But to many manufacturers faced with declining order-books and intensifying competition, the more mechanical handling plant at immediate future of corporate the Selby coalfield. The project investment plans is what concerns them most at the moment. The proportion of handling

duction is surprisingly high. junctions, a coal- and stone- expects to have a totally auto-Government studies have esti- loading station, and the housing mated factory functioning as a mated that as much as 15 per cent of gross national product can be attributed to the cost of handling, which means that if this bill could be cut by just 10 per cent, industry could be saving itself in the region of £180m annually.

Many companies are aware of this part of their costs, and take steps to ensure that this aspect of production is closely watched. The output statistics of the handling equipment industry over the past five years suggests that investment in this type of equipment has held up reasonably well at a time when other items of capital equipment have shown a more cyclical trend.

There have been exceptions, however, and these have been found particularly in companies making equipment for the steel industry, for example. The slump in investment by the British Steel Corporation has meant hardship for some manufacturers of heavy-duty over-head cranes, for instance, while the slowdown in investment by port authorities following the re-equipment for containerisation has led to very difficult times for the manufacturers of dockside cranes.

North Sea

More recently they have gained some alleviation by the increase in construction and development work in the North Sea which is now being won by British companies.

The slump in steel has also

been offset, to some extent, by the continued investment from some other major industries notably the National Coal Board. Adamson Butterley, for example, a company which did a lot of steel work, has recently won an £8m contract for a covers a computer-controlled plant which will include highspeed conveyors, specially decosts to the total costs of pro- signed feed hoppers at conveyor

A contract like this for bulk handling can keep a factory in business for a year and more. but they are few nd far be-tween. The manufacturers of factory equipment for unit handling, such as overhead travelling cranes, hoists and conveyors, are concerned that the drop in investment this year. and probably next, will involve mechanical handling this time. Most companies are expecting this year to be difficult. The lift truck industry, for instance, which is sometimes taken as an indicator of economic prosperity because they are used exten-sively in warehouses, is this year expecting a drop of 10-15 per cent.

In the eyes of forward-looking companies, modern materlals handling methods are linked with greater efficiency. The high cost of labour in all industrialised countries make it increasingly attractive to invest in systems which require lower manning levels, although it could be another couple of years before many companies can see their way to making investments of this type.

Interest in automated handling has been less apparent in Britain than several other countries, mainly because labour costs are lower in relation to Japan, West Germany, and the U.S., the countries which have gone furthest down this road. After several years of Govern-ment financed research, Japan ing to manufacturers of elec-

Conveyors, aerial ropeways

Cranes and transporters

Lifts and escalators Lifting and winding devices

Industrial trucks and tractors

*Estimated

and steel structure for a coal pilot project within the next couple of years.

Britain has been much slower to see the advantages of automated and semi-automater processes. Two big projects which will do something to dispel this image, however, are the Ford engine plant to be commissioned in South Wales, and the reequipment at Longbridge where BL plans to bring out the Mini Metro this autumn. Both have invested heavily in advanced conveyor systems, for example and overhead tracking, as well as robots at Longbridge for spraying and welding functions.

Robots are only now being developed which will be used for the loading and unloading of machines during the various stages of the production process. But there is considerable scope for speeding up the process of handling, which does not have to go as far as waiting

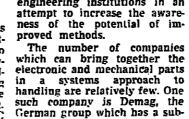
Better methods

The Institute of Materials Handling, set up by the Department of Industry last year to investigate methods of cost sav-ing by the use of better handling methods, has been looking at ways in which this can be done. In the area of machining. for instance, investment in NC machine tools is high, but the items to be machined are frequently put on and taken off the machines manually.

215

Source: Department of Industry.

MECHANICAL HANDLING-U.K. SALES



sidiary in the UK that has designed and implemented advanced warehousing systems, with other items of equipment. including a central warehouse for Lever Brothers. It believes that package systems involving ing company has some in-house a degree of electronic controls expertise in the designing of will become a growing part of applications, either to be done its business (which is primarily making cranes and hoists). Other companies include

FATA (now part of Babcock and Wilcox) which specialises in warehousing and distribution systems, while GEC's handling activities, combined with the group's electronics expertise, obviously have the potential for advancing this type of work. Will be impossible to hold back companies in the heaven the demand for package on investment. The construction has been



A Linde 14,000 lb diesel fork truck, available from Roche Mechanical Handling,

tronic and mechanical equipment, users and professional engineering institutions in an handling requirements, can be expected to grow. The tradi-tional pattern of buying, for attempt to increase the awareness of the potential of imexample, a batch of new lift

trucks when the existing ones need replacing, is probably still dominant. But there is an increasing interest in linking that purchase with, for instance, stacking equipment which will make greater use of a factory or warehouse space, and linking these This type of demand requires that the equipment manufacturalone or in conjunction with the production planning team in the customer company.

Movement of goods is not the only concern of handling. The rapid expansion in air travel has led to ever greater demands being put on airport handling, and this at least promises to be an area where it will be impossible to hold back companies in the heavy cranes

systems, whether complete or tion of new ports and docks. for a part of a company's and modernisation of existing dockside facilities, also con-tinue to hold prospects for companies which are concerned about the home market.

> Competition will be tough, however, as it is in all areas of engineering. The materials handling industry does not have a distinguished productivity record, again in common with most sectors of British engineering, and this in spite the fact that some at least are good advertisements for their own products.

New markets

In some sectors, conveyors, for example, manufacturers have tended to turn their eyes towards exporting only when the home market has proved unrewarding. Not surprisingly, they find they are up against established competition from other countries.

The serious situation facing

Battle for exports UK industrial trucks Italian manufacturers French truck producers Vigorous German market The crane industry Emphasis on safety Personality profiles Japanese manufacturers The U.S. market New systems from Finland Blow for conveyor market The unit load sector VH Warehousing systems Steady growth in leasing Aspects of automation The UK lift industry **X** . Lifting and winding XI Automatic assembly <u>XI</u> Food processing XH Drink production Pallet systems New ways to cut costs

ancial results, and it would not be surprising if the next couple of years brought further rationalisation. Even for lift trucks, which have been a buoyant sector for most of the 1970s, the outlook is less clear. The sector suffers from worldwide overcapacity and a highly developed international trade. Despite the world economic situation, htere are still many opportunities for the efficient, well-run company. Some parts the industry might do well to widen their concentration on purely product concern to include more of a systems approach, although this is difficult to do at a time when a financial constraints within the company are most pressing. For those companies with the resources, the need is to look increasingly at the hand-ling methods of the future. will require more attention to the bringing together of mechanical and electronics expertise, an area where British industry has not shown itself growing to be innovative in the past.

DESIGN AWARD FOR NEW LEADER IN CONTAINER-HANDLING.

Lansing's new 25TR Ro-Ro containerhandler has won a Design Council Awardprofessional recognition of this relatively small lift truck's remarkable ability, in the severely restricted 'tween-decks space of container ships, to load and unload huge containers with exceptional speed and efficiency.

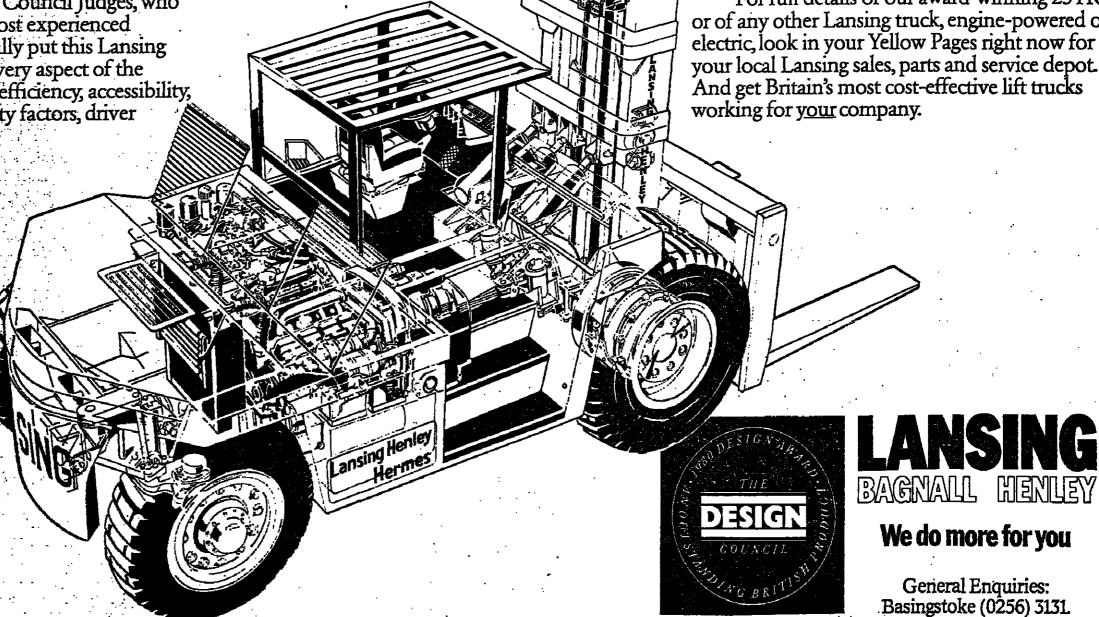
Design Council Awards are not lightly given. They mean that the Design Council Judges, who include some of Britain's most experienced engineering minds, have really put this Lansing truck through the hoops. Every aspect of the 25TR's design—mechanical efficiency, accessibility, controls, fuel economy, safety factors, driver

comfort-is minutely examined. And operators and drivers are impartially questioned on its record in

actual service. So a Design Council Award for a lift truck says the very things about that truck that you, the customer, are really looking for.

And the fact that this is Lansing's second Design Council Award says a great deal about Lansing's ability to design trucks of unparalleled excellence. That first Award was for a truck that could hardly have been more different-the unique Lansing Narrow Aisle Turret Truck with its remarkable 12 metre lift mast; now in highly productive use all over the world.

For full details of our award-winning 25TR, or of any other Lansing truck, engine-powered or electric, look in your Yellow Pages right now for your local Lansing sales, parts and service depot. And get Britain's most cost-effective lift trucks working for your company.



right: either way the weaknesses The other document show /as exposed by it

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Big battle for export orders

MATERIALS HANDLING is a British industry there is the improvement recently, however vestigate possibilities in sector to another. At one ex- interest rates, treme there is a readily exportable product like industrial sterling has undoubtedly unset trucks which has helped this the calculations of many comindustry to become highly internationally conscious. At the some shift in the sourcing of other there are items such as components will take place, but heavy-duty cranes which have for the wholly UK-based comtended to be supplied very much on a domestic basis.

The traditional concepts of what can and cannot be exported, however, are changing. The severe downturn in big industrial and port projects in the UK, for instance, has forced manufacturers of heavy cranes to look overseas for orders. They have had some success, notably in the Middle East development projects, but ont enough to detract from the serious situation they face in the home market. The conveyor industry has also tended to be largely domestically-orientated, but the growth of industrialisa-tion in some of the developing countries is creating new oppor-

Competitive pressures on the whole of the materials handling industry can be expected to increase over the next couple of years. Although parts of the industry have done better than manufacturing industry gener- in the past to be poor at ally over the past five years, it organising itself into consortia, certainly find it more difficult to sell its products in the handling have been no execp-gathering recession. For the tion. There has been some

diverse industry, and the degree added problem of selling in a sometimes linked with a greater of internationalisation varies currency which is valued on oil effort by the nationalised indusof internationalisation varies currency which is valued on oil substantially from one sub-revenues and current high

> The continuing strength of panies. For the multi-nationals, pany, this option is not available. The effect on those companies which are involved in exporting and that applies to a fair section of this industry -is that margins will be squeezed and new investment programmes, which are essential for the longer term increase in efficiency needed in the industry, will be delayed.

Project links

Exports of certain materials handling equipment are linked increasingly to total projects, and this has tended to make it easier for countries which enjoy well-established process plant industries. For example, the conveying equipment required for the expansion and modernisation of a coal mine in Egypt, a project which has been won by a German consortium, stands a good chance of being awarded to a German manufacturer.

British industry has tended and projects requiring materials

tries to help get overseas orders for their suppliers. The National Coal Board has set up a company for this purpose, and it may well be that there is a need for a similar organisation in the steel industry.

plans, in particular, have proved a welcome boost at a time when many of the big steel industry expansion schemes, which bring valuable orders for materials handling, have been cancelled. The Selby project, for iustance, has brought considerable work to the industry, and the added benefit that it is a showcase mine for overseas buyers to visit Similarly, the technical challenge presented by North Sea exploration and develop-ment is increasingly being met as far as handling requirements (heavy cranes for oil rig con-struction) are concerned by British companies, and this will stand them in good stead for overseas work.

On a much smaller scale, there has been an attempt by the trade association for the conveyor industry, and its NEDO sector working party, to promote exports. The industry has traditionally exported less than 20 per cent of its produc-tion, and it was felt that this could be improved. The West conveyors, partly because of their strength in process plant, and the Americans are also strong competitors.

A survey carried out for the identified certain developing countries as holding most potential for the UK industry, and it was decided to set up an office in Caracas to in-

Venezuelan market. The project has the support of 10 leading manufacturers. The response in terms of inquiries in Caracas has been good, although it is recognised that the project must be seen on a longer term. basis. If orders are forthcoming the effort will have shown The coal industry's investment how several companies which probably could not spare the resources to establish a physical presence in such a market can join together with the help of their trade association. It is, after all, only doing what the

Competition

like hoists, winders and lifting tables, etc., for use in a multitude of situations, is much more ducts tend to be standardised and therefore produced in reasonable volume. The industry is increasingly confronted by lower-cost competition from developing countries, and may well find it difficult to hold on to traditional markets.

The lift industry, covering ssenger and freight lifts, escalators and passenger con-veyors, is closely tied in with new building projects and re-furbishment. Exports have shrunk over the past few years and there is concern about the state of the industry generally. Servicing is an important element is selling such goods, but there is a growing problem that standardised, aithough fre-this is increasingly being done quently adapted for particular outside the manufacturers. Manufacturers of industrial

German industry has been doing The industry making lifting and winding equipment, which covers a whole range of items

> rider-reack truck is runge and it is being knunched in the UK at the Inter-national Materials Handling

Show which opens today at Centre, near Birmingham. As with lifting and winding equipment, the product is fairly

in spite of worldwide overcapacity, there are still many manufacturers which are expanding. In many respects ndustrial trucks are quite unlike other sectors of materials handling, frequently being purchased or hired on their own rather than in conjunction with a handling backage. The industrialised countries offer little scope for further

ened by low-cost competition

growth in this market, other than through normal economic expansion. For this reason there will be tighter competitive pressure on manufacturers over the next couple of years as they all try to export what their home markets will not be taking up. The UK industry could find itself adversely affected because their own market is now more attractive to importers, particularly the Germans, who find that they can now compete on price terms, while export margins are getting less attractive. It would be no surprise if some rationalisation took place. In the longer term the surviving companies will find themselves in a stronger position, having been forced to improve on their

No sector of the handling industry, not even industrial trucks, can point to established success in export markets. All too often exporting has been haphazard and has failed to concentrate on particular areas. The industry will find that it must capitalise on those items where it has earned a measure of technical advantage, and at the same time become mor competitive both on price and

Hazel Duffy

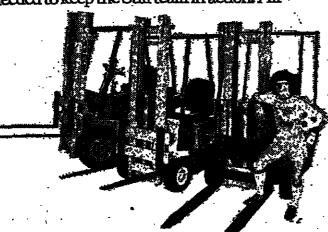
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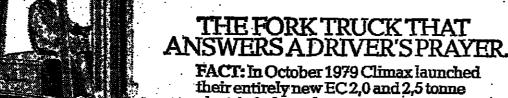
in action. Liverpool docks that is.
For further details, and a signed Telephone: 402421/6

photograph of me, please write to:-Mr. B. J. Williams, Still Materials Handling Limited, Oxford Street Industrial Park, Bilston, West Midlands

Telex: 335681 Still G."

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electric fork trucks. Trucks that are built to raise the standard of driver comfort and safety.

More innovation by UK's industrial truck sector

trucks, the remainder including economy. such products as sideloaders and straddle carriers, industrial tractors and pallet, platform and stillage trucks.

Britain has a strong manufacturing presence in this industry, and can claim several innovations which have now become standard items, such as the narrow aisle reach truck. It is well represented at the heavier end of the industry, with com-panies like LancerBoss and Lansing Henley making sideloaders, and offers a very full range of equipment in the medium category. There is some concern, how

ever, that there is not enough presence in the small electric where Japanese, using volume production techniques, are particularly For electric trucks the UK market is overail developed. It splits about equally between electric and IC (internal combustion that is, petrol, diesel, lpg), which is a considerably higher proportion of electric trucks than most other developed markets. Interest in electric trucks is growing worldwide although there are still technical drawbacks to making larger-sided electric trucks.

The major truck manufac-turers in the UK are Lansing Henley (which came about by the merger of Lansing Bagnall and Henley), Coventry Chmax (owned by BL), and LancerBoss, and on the multi-national front, Britain is the main manufacturing base for Hyster, Eaton and Caterpillar. There are also Caterpillar. There are also numerous smaller indigenous companies providing for particular needs, like Crown, which specialises in pedestrian controlled trucks.

Lift trucks are an indispensable item in every factory, warehouse, delivery bay, or anywhere where items need to be and stacked. Larger have also become equipment in ports with the advance of tainerisation. Over the last 20 years, demand has built up quite about this industry.

THE INDUSTRIAL truck indus-rapidly, with the exception of try is the largest single entity the odd year or so when the in the mechanical handling economy was in recession. But sector, with an estimated output today, the UK market is con- 1978, and probably one-third of around £365m in 1979. By far the largest part of the industry growth in demand will depend in 1970. Some are due to the is concerned with forklift on the rate of expansion in the

> cautious about future growth. They base their reservations on the increasingly sophisticated methods of handling which are being developed for factories, cutting the need for lift trucks to move items from one part of the factory to another during the manufacturing process.

There seems to be little recognition in the industry of the way that such technological advances could change the out-look for lift trucks, although one or two companies are believed to be drawing up plans.

Versatility

Most manufacturers take the view that the lift truck will be irreplaceable for many years to come, and that developments will be increasingly on the lines along which they have already started, namely in greater safety and comfort for the driver, quieter and more efficient engines, as well as more versatile trucks. This year is expected to be

difficult, in common with most parts of industry which are making items of capital equipment. Investment had started to fall off last year after the high levels of the previous 12 months, and most forecasts are agreed that there will be a further cutback during 1980. The lift truck industry does not expect to escape these strictures in the economy, and the expectation is that UK production will be in the order of 12,500 trucks, about 10-15 per cent down on last year. Britain is traditionally a net exporter of trucks. In 1978, exports totalled £138m against

imports of £78m. The underlying trend in 1979 was difficult to detect due to the interruptions caused by industrial disputes. It seems likely, however, that exports were slightly up on 1978 and imports well up. If this is the case, they COIDreflect some worrying aspects

29 per cent of the market in

they are finished products. Exports, on the other hand, have displayed a more erratic trend over the past few years, managing a big jump in 1977, but only edging up slightly

The export constraints in lift.

trucks are common to most sectors of the engineering industry. Costs are too high, productivity too low, and the high exchange rate both makes exports feasible only if companies are prepared to trim their margins, and at the same time makes imports more attractively priced. Although there has been a tendency in industry to bemoan the problems of the pound to the exclusion of more positive noises, it certainly does not make life any easier when the product is as price-sensitive as in this industry.

The remedies lie in promoting increased efficiency, and probably in concentrating on the technology that will be required in five years time. Coventry Climax, which suffered a considerable loss of market share last year, has only recently got around to rationalising its production after the merger with Conveyancer. It also brought out new models recently, including the Tough Terrain, and thereby hopes to regain its former share.

Climax's exports amount to about 25 per cent of output, which is not high for this industry. Last year, they were hit badly by the loss of the Iranian market. Total sales last year dropped £7.5m to £48.5m, and profitablity was

much reduced.

Lansing exports as much as two-thirds of output, and is the only British company to build up a significant presence in Europe; its share of the home market remains dominant Production was quite severely affected last year, however, and it is likely that margins suffered on exports in particular. Lansing has always been in

Imports have been creeping the forefront of technological up throughout the 1970s to take development, and it will need to maintain this reputation if it is to hold on to its position,

Eaton went through a lot of in 1970. Some are due to the upheaval last year as the plan UK-based multi-nationals bring- to switch most of the production ing in components from over of its German plant to the UK seas subsidiaries, but mostly was effected. The plan suffered a setback because of industrial problems, including engineering strike, and by the end of the year, a backlog of 400-500 trucks had built up. Eaton plans to build 3,000 to 3,500 trucks this year, of which about 35-40 per cent will be exported in addition to those models made in the UK for the

German market. Hyster, the other big musti-national, is building a new plant in Northern Ireland, which will be in addition to its Scottish factory. The plant will be highly automated, which will give Hyster the cost benefits that it needs to maintain its position as probably the most profitable of the American lift truck operations in Europe.

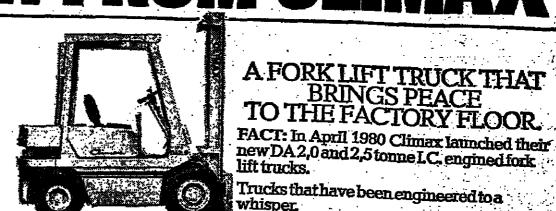
Caterpiliar, meanwhile, has not yet managed a significant share in lift trucks, although few doubt that this will be achieved at some stage in the

LancerBoss, a privately-owned company, won a valuable order a couple of years back in Saudi Arabia for the equipment of port familities. The company announced last year that it would be expanding its produc-tion capacity. Sales increased by 20 per cent last year, but profitability was unchanged.

The British market attractive, but very competitive. Companies such as Jurghein-rich, Linde, Still, and Fiat have embarked on promotional campaigns designed to win for themselves at least a small slice of this market.

The Japanese share of the UK market is meanwhile variously estimated at 10-12 per cent (the industry itself is intensely secretive about its statistics with the result that estimates abound); but is expected to grow. The British enjoyed a strong position over the years and would be very foolish to let this sip out of their hands now.

H.D.



A FORK LIFT TRUCK THAT
BRINGS PEACE
TO THE FACTORY FLOOR.

Trucks that have been engineered to a

machine handling industry is country's larger groups, they industry has continued to facing growing uncertainties in; have found it hard to compete view of the continuing slump, internationally in a sector in both the domestic and Euro- which is becoming increasingly pean construction marets and specialised and sophisticated. the difficulties in keeping. In the case of the production abreast with the technological of large industrial equipment, international competitors, particularly in the U.S. and West

cost competities as worldwide one suit many rese

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Hazel Dut

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Indeed, the main problem of the industry in Italy has tradi-tionally been a technological

"In the absence of a strong domestic market, Italian manufacturers have found it difficult to develop the sort of advanced technology required to remain competitive on the international. market," a leading public sector machine handling expert ex-

But the industry's problems have now been exacerbated by the failure of the Government to introduce its long- awaited and promised industrial reconversion and recovery programe, at a time when the domestic construction market

faces a dire crisis." Italy's machine handling industry, with an overall annual turnover of some L800bn and employing about 37,000 people, is largely concentrated in the country's northern industrial triangle and is made up of a large number of small and medium-sized companies.

traditionally enjoyed in Italy better labour relations and contracts.

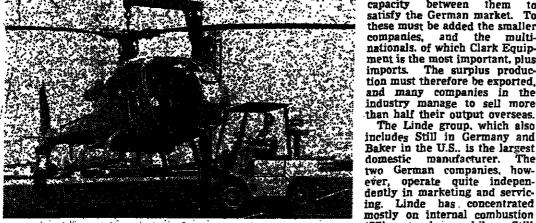
advances of the sectors main such as cranes for steel plants, ports and major industrial com-

plexes, only the larger Italian enterprises, such as the state-controlled CMI group, or private concerns like Reggiane, Centile e Brigli, and Ceretti e Tanfani have managed to keep up, and sometimes maintain a lead on their international competitors, in terms of technology. For example, the Genoa-based CMI group has become a major exporter of cranes for steel plants and is now specialising in sophisticated lifting equipment for nuclear plants.

World leaders

Another major Italian state group, Salpem, controlled by the National Oil Agency, Ente Nazionale Idrocarburi, has also built a deep-water pipe-laying vessel, the Castoro Six, which has been laying pipes at record depths in a sector of advanced

technology in this sector has is particularly vigorous and lagged behind. This also came competitive. The market last out in a Government report on year has been estimated at capacity the industry which criticised around 30,000 trucks, of which annually. the excessive fragmentation of about one-third is imported. While these small and the sector with Italian commedium-sized enterprises have panies often competing against size, it is clear that the capacity themselves for international



The application of a fork truck is not limited to the stacking of pallets: this unit, a four-tonne diesel R-34 series truck by Still, is carrying a helicopter to a maintenance shop

WITH THE marked exception greater dexibility in their pro- In contrast with the sector vatori, as "a nice little busiof industrial lift trucks, Italy's ductive activities than the as a whole, the lift truck ness."

The group with a plant of the prosequently took a job with Fiat

flourish in Italy. Turnover, between 1978 and 1979, rose by nearly \$2 per cent from L110bn panding its existing facilities. to L145bn. Employment in the Although modest by Fiat industry increased by 19 per

Unlike other Italian machine handling sectors, lift truck manufacturing enterprises tend to be more concentrated in the south and less industrialised

cent. Fixed investments grew

by 25 per cent from L7,000bn

part of the country. Fiat, the giant Turin-based motor group and Italy's largest private enterprise whose car faced growing difficulties during the past six months, described ing company, Fiat Carrelli Ele-shares of the domestic and

The group, with a plant at Bari in the south, is currently doubling up its capacity to about 17,000 lift trucks a year by ex-

standards, the truck lift concern has remained profitable and was recently turned into an independent company in the dumpers, framework of Ftat's ambitious gramme. About a third of its and started producing sales on the domestic market.

Italian lift truck concerns conmanufacturing activities have sist of small to medium-sized private companies which have unusual mechanical device to had to rely on their own devices shake olives off trees. its car lift trucks manufactur- to expand and secure growing

international markets. example, which illustrates both how these companies have grown and continue to maintain their competitiveness, is the Fiori concern in Modena, in central Italy, where it produces dumpers and lift-trucks, particularly for airport-handling use. It was started by Sig.

Fioravanti Malavolta, who began his working life at the age of Trattori, the tractor manufacturing plant in Modena of the Turin motor group. After the war, he set up his own tractor a general sense, the French repairs business, which started flourishing when he decided to convert former army Jeeps and trucks into industrial vehicles, such as mini-mixers and small

In 1948, he opened a small reorganisation pro- workshop, employed ten people output is supplied to other Fiat dumper a day. Now, the Fiori plants, while the balance is concern sells more than 1,200 shared between exports and dumpers a year to more than 50 countries all over the world. However, the majority of As a measure of the small comworking on the production of an

French producers' winning strategy

THE SECRET of success in those of a fork lift, and have to rain products. world markets, it, is often be able to work in difficult con- amounted to FFr 22m. argued, is specialisation. Whether this is true or not in

fork-lift truck industry has it facturers of rough-terrain vehicles. These two, Manitou and Sambron, are calculated by some competitors to have between 50 and 70 per cent of the European market in their

specialised sector. Rough-terrain fork-lift trucks are designed to do lifting jobs in areas where there is a premium on rugged durability

way since the last war and have. seems, succeeded because shown how this principle can be they have been willing to push put into effect by developing resources into this sector just two of the world's leading manu- as much overseas as at home.

The bigger of the two companies is Manitou, a subsidiary of the Braud et Faucheux group which also makes a range of other building site products (dump trucks and concrete mixers), and distributes Toyota fork lift trucks for the Japanese company in France.

Recently, the Toyota business has been expanding, but it is on building sites, in saw mills, reckoned that over two thirds in outdoor stores and on farms. of Braud et Faucheux's 1978 They combine some of the sales of FFr 405m (\$96.4m) were in the Manitou rough ter-

The third major domestic

cent was accounted for by

The industrial truck industry

of its customers. The German

fully than others, while main-

taining the reputation of

In addition, the leading com-

building up their distribution

they have at least a foothold in

most developed markets. But it would be surprising if the next

year or two does not knock some

of the expansion targets, in

common with the industry else-

producing

trucks.

factory has been increased range includes pallet trucks, lift

Sambron, which has recently The French producers have taken over about half of the come on to the scene in a big Richier construction equipment company from Ford, also makes dump trucks. But, again, its forte is in rough terrain vehicles. In 1978 it achieved a turnover of FFr 167m and had profits of FFT 1m.

Between them, these two companies have put France on the map among the international fork lift truck manufacturers, simply by pushing their speciality products.

In other aspects of the industry. France has been nowhere near as successful, and has certainly not developed on the international scale which is now becoming an essential element of the business. But, in the last two years or so, the home producers have been helped to take a grip on the domestic market and consolidate their position by new regulations reducing competition from over-

These "protective" measures, strongly condemned by France's partners, mean that industrial trucks sold in France have to have removable fuel tanks and similar controls to those of a car. Both of these new rules are based on safety considerations, and have been brought into the forum of proposed EEC regulations. But whether or not they become generalised, the regulations have had the effect of making it more difficult to export to France.

Acute problems

These problems have been particularly acute for smaller manufacturers whose limited production and financial margins cannot support the cost of extensive production modifications. Larger companies from Germany, the UK and Italyincluding the European arms of the big American and Japanese multinationals — are now overcoming the difficulties: they, in any case, are planning ahead panies have worked hard at for harmonisation of European standards. But there is evidence that some smaller producers have given up the

French market altogether. Following these new protective measures in France, the industry has been running a strong balance of payments surplus in the last two years. Terry Dodsworth

Vigorous German truck market

technology in which Italy can for industrial trucks is the in this direction. claim to lead the world.

largest in Europe, and has Linde's main In general, however, Italian given rise to an industry which

Even with a market of this of the industry far exceeds the size of the home market. The three biggest manufacturers. example, have enough capacity between them to satisfy the German market. To these must be added the smaller companies, and the multinationals, of which Clark Equipment is the most important, plus imports. The surplus production must therefore be exported, and many companies in the industry manage to sell more

The Linde group, which also domestic manufacturer. The ceut of the German market, and two German companies, however, operate onits in the largest Linde claims around 30 per ceut of the German market, and would be followed along the companies of the German market, and would be followed along the companies of the German market, and would be followed along the companies of the German market, and would be followed along the companies of the German market and the companies of the German market and the companies of the companie deptly in marketing and servictrucks, while Still trucks. The German market already splits quite heavily in separate, there are now moves present levels. favour of electric trucks, and to rationalise some component

THE WEST GERMAN market demand is tending increasingly production and this should owned group which is the world of the sales it lost in Germany Linde's main factory is at

Aschaffenburg, where it has recently added three more pro-

Linde's 1979 total sales at £503m were 19 per cent up on the previous year. Materials handling accounts for 34 per cent of turnover, other parts of the group being concerned with various types of engineering such as refrigeration and machine tools. In the current year, Linde plans to produce 10.500 units, and says it has already received orders for 8,500. This compares with sales of just over 7,000 units in 1979, of which 52 per cent were exported.

Lift truck management is incurably optimistic about the

Based in Hamburg, Still was difficult period. Although production and marketing of the

bring some cost advantages to leader in industrial trucks, in the late 1970s. both companies.

Like other German manufacturers, Still has developed its duction lines to bring it up to a export business fairly successof 12,500 trucks fully in the past few years. It has started marketing in the launched a new truck with the market particularly in mind. The British market, although manufacturers, has become increasingly attractive to the turers over the next couple of the current year, the company German industry since the years. In terms of units, unis planning a 10 per cent expanstronger pound has made their

optimism of all the manufacturers, however, there must be real doubts about their expansion forecasts in the current Exports are not just topping-up for the industry, but a vital part of the operation. Even if the German market holds up better this year than most, it remains to be seen how well the German industry will be able to sell its trucks overseas. Many of these markets ing. Linde has concentrated acquired by Linde a few years expect companies to cut back mostly on internal combustion ago after going through a on investment, and lift trucks ago after going through a on investment, and lift trucks will take their share. Export margins, meanwhile, will be two companies has remained difficult to maintain even at

basis its European manufacturing operations in Germany, manufacturer is Jungheinrich, Clark's sales of trucks are in which makes only electric excess of \$500m, with Europe trucks. Sales in 1979 equalled the second biggest market after around £130m, of which 10 per the U.S. Capacity at its Mulheim stackers. The Jungheinrich

recently, and the company will trucks, as well as reach trucks. obviously hope to take advan- Production last year was in the tage of the weakening position order of 12,000 units, of which of certain European manufac- 58 per cent was exported. In turers over the next couple of the current year, the company prices more competitive in the having between eight and 10. The industrial truck industry UK.

per cent of the European will succeed only if it can adapt market, which would amount to the changing requirements to 7,500 to 8,000 trucks. In Germany, its market share industry has tended to probably runs a close third to anticipate trends more success-Linde and Still, but its decision to cease production in the UK a few years ago has cost it

market share in that country. Eaton stopped just short of the Instead of closing down its German factory and shifting all production to the UK, it decided, a couple of years ago, to continue manufacturing a few products for the German market only from its factory at

The size of the operation has been scaled down substantially, Clark Equipment, the U.S - but Eaton hopes to regain some

where in the world. Hazel Duffy

well-engineered

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histories. where provisional solutions to special requirements can even be suggested on the spot. Another problem of the conventional stand is that one has to man it with people drawn from the field; our men are fortunately busy in their own

the domestic market over the next five years," says one senior executive in the industry. Another says: "I don't see a sigterritories. So our special stand has, nificant recovery in steelworks and dockside cranes in my lifein attendance, the senior executives from our Advisory Service. They look forward to

that way.

Strong emphasis

THE PRESENT state of the crane industry — which, in this context, excludes mobile cranes

used in construction and civil engineering - exhibits in an extreme form the difficulties facing virtually all British manufacturers of capital goods. The home market has been flat for some time and seems likely to become worse. Over-

seas some of the more important markets, especially in the Middle East, have become less active. There are fewer big contracts to go for; and currency movements have made it in-tensely difficult for British firms to compete on price against the Germans and the Japanese.

For the same reason the UK market has become more vulnerable to import competition, especially in hoists and crane components. Finally, there is the general problem of inflation, which makes it hard even for the profitable companies to generae adequate funds to sup-

port investment in new products

The dearth of orders within the UK applies especially to heavy cranes where the big cus-

tomers tend to be State-owned

enterprises — such as British Steel, British Shipbuilders, and

the Central Electricity Generat-

ing Board. Their investment

programmes have been small

and, with the possible exception

of plans for new nuclear power

station (which are still some

time away), seem likely to stay

"I'm assuming zero growth in

and new machinery.

In the past five years several companies have put greater emphasis on exports; and some big orders have been won; perhaps the most spectacular was the £15m Saudi Arabian contract for dockside cranes won by Stothert and Pitt, of Bath, in 1973. But in the past 12 months or so export business has been hard to come by.

When sterling was in the region of \$1.80, British crane makers could compete very effectively on price against their main overseas rivals. Now the situation is reversed, while the continuing high level of inflation in the UK makes bidding for fixed price contracts even more risky than normal. Companies which have traditionally been exporting about 40 per it difficult to maintain an export years — has been greatly ham. Carruthers by Burmah Oil, ties. Another article (on the

in the structure of the industry seems doubtful.

Over the past decade there have been two sorts of amalgamation within the industryone involving the bringing together of several crane companies under a single ownership and the other the acquisition of crane companies by large industrial groups.

Examples of the first type are NEI Clarke Chapman Cranes and the grouping of Adamson Butterley, John Smith of Keighley and Butters Cranes in the Norcros stable. Examples of the second are the acquisition which has been an objective for of Herbert Morris by Davy

independents or members of to their crane-making capacity has been the determination of several of the principal companies to diversify their product range, both within the materials handling field and outside it. Separate articles on NEI

Clarke Chapman Cranes and page) indicate the directions of that they are quicker on their diversification; the tendency is feet to take advantage of marfor these companies, while not ket oportunities. The challenge neglecting the opportunities for both groups is to keep their which still exist in their traditional field of expertise, to look one of the most difficult periods for other products, sometimes through licensing deals, which perienced. cent of their output are finding the industry for at least ten Corporation and of J. H. suit their manufacturing facili-

The demand for cranes is not about to disappear-it remains a substantial part of the mechcompanies will come only

Such a strategy requires very willingness to spend mone 'product by buying other crane com-panies. Indeed the most strik- for improving quality and perable, but there is always scope ing feature of the last few years formance through design improvements and greater manufacturing efficiency.

The fact that several of the leading companies are backed by the resources of larger groups should help them ride out the present lean times J. H. Carruthers (see facing although the specialists argue organisations healthy during the crane industry has ex-

Geoffrey Owen

Emphasis on greater safety

many, which both imports

equipment into the UK and

manufactures cranes and other

materials handling products at

its factory in Banbury. Other

important hoist producers include SWF of Germany (a

subsidiary of the GHH group). Verlinde of France and Kone of

Finland; the Japanese are

active in the market. There is

also strong import competition

in the lighter electric chain hoists; Balkancar of Bulgaria is

among the leading foreign sup-

The attempt to roll back the

tide of import competition -

even more accidents unless pre-

costing up to £25,000.

pliers in this sector.

larly versatile piece of mech-struction sites could result in anical handling equipment but, perhaps because of its versait has a poor safety record in the factory and ware-This year about 5.000 people

will be injured and another 20 will be killed in factory accidents involving lift trucks. Many more will be injured or die as a result of accidents involving other forms of mechanical handling equipment. Lift trucks are responsible

for about one third of all injuries involving transport in the factory. In almost half of these accidents, injuries are caused wholly or partly by driver error.

Operators are too frequently ignorant of the regulations and principles of lifting resulting in accidents during the lifting, stacking and lowering processes

In 1976—the last year for which full statistics are available in the UK-fork lift trucks were directly responsible for some 30 deaths in factories and other 5,100 accidents. In warehouses and on the docks, a further five people were killed in more than 400 accidents.

Key factors

Responsibility under safety egislation for minimising the risks in the use of all equipthe Executive in previous rement in factory plant and durports. ing other processes is shared by both management and the workforce. The safety of em-ployees in areas where lift trucks operate depends upon such factors as safe systems of work, adequately trained operators, well-maintained trucks of safe design and manufacture, a suitable environment—such as smooth and level floors, and the control and segregation as far as is possible of pedestrians and

It is perhaps not surprising, given the accident record of the lift truck, that in the UK the Health and Safety Executive. the body mainly responsible for health and safety legislationhas highlighted the risks involved in the use and misuse of the lift truck in a series of guidance booklets, training films and reports.

In December, the executive published a guidance booklet on lift trucks aimed at pinpointing the risks and advising how accidents could be avoided.

The executive warned that despite their versatility in the movement of raw materials and goods in many industries and processes the increasing use of lift trucks in factories, ware-

THE LIFT truck is a particu- houses, agriculture and on con- truck crashed into a column Many serious crane accidents, injuring one of the driver's though seemingly the fault of legs which subsequently had to be amputated.

ventive action is taken. The booklet underlined the The executive has stressed need for companies to ensure that operators are properly trained to meet the particular conditions of work and that supervisors see they continue to operate trucks carefully. The need for such training and supervision becomes clear when one considers that virtually anyone of any age or temperament can be put in charge of a vehicle weighing up to eight tons and

In recent reports, the execu-The adaptation of equipment tive has pointed out some of more dangerous misuses of fork lift trucks-for example, using the truck without adaptation as a working platform. In many accidents of this sort men have been straddling the forks or standing on loose pallets. Specific attachments con convert the fork-lift truck into a safe temporary lifting platform and for more regular use many types of lifting gear—including scis-? sor and access lifting equipment are available.

There are, however, many other reasons for lift truck accidents including inadequate premises and poor truck maintenance. Some of these factors have been highlighted in accident case studies published by

Accident No. 1, A fork-lift truck rental company supplied a truck to a factory which, unknown to the system. Shortly afterwards, it

the need for industry to adopt proper systems of work including training, to control traffic and pedestrian movements and to maintain trucks in working order. Some accidents in which people have been crushed between the framework of the cab or canopy and the ground suggest that further modifications could be made to truck design to improve safety.

design to improve safety has been demonstrated outside of the factory floor. In quarrying and opencast coal mining one of the major hazards is accidents involving vehicles. In 1978, in the UK, six of the nine deaths in open-cast coal mining involved haulage and transport and a major factor was the size of dump trucks and poor driver visibility. Cab viewing aids, such as closed-circuit television, are now being developed to ease this problem.

Demonstration

To procedures some larger companies now use insurance companies to carry out periodic equipment inspections. Such inspections are particularly essential for cranes and other forms of lifting equipment.

Safety legislation in many countries now requires thathirers, had a defective braking aside from periodic maintenance -cranes must be clearly marked was being driven down a ramp with the maximum safe lifting when the brakes failed, sending load and must be operated in ment is now under scrutiny. In the truck out of control. The such a way to minimise risks. particular, the Executive is pre-

the driver, are more likely to stem from fundamental failures in management safety organisa-

In March, the Health and Safety Executive published a report on management's responsibilities in the safe operation of mobile cranes whichthrough three case studies illustrated the special dangers of mobile crane work including the lifting of heavy eccentric loads, the problems of tandem lifting and the transport of arge cranes.

The report highlighted the dangers involved in using equipment which is now capable of lifting more than 500 tonnes and which can include jibs higher than a 20 storeybuilding and pinpointed four specific management responsi-bilities:

• The need to identify those responsible for the selec-tion of cranes for a particular operation—and the factors to be considered before the choice of equipment is made.

• The need to consider and assess site conditions before operations start. improve maintenance. • The need for careful train-

ing and instruction of drivers together with proper supervi-The need for detailed ser-

vicing and maintenance schedules particularly when the crane is on site.

Although the Executive's intentions have focused so far on the safety aspects of lift trucks and cranes, other mechanical handling equip-

A PART THAT WILL

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safety legislation in the UK into the "new entrant sectors"— areas such as schools universities, hospitals waterworks-together with the introduction of statutory shopfloor safety representatives, is likely to intensify the pressure more stringent safety

More pressure

As far as the manufacturers of mechanical handling equip-ment are concerned, this may result in further pressure for improved safety standards and changes in equipment design. Inevitably this will lead to added costs and could further weaken the competitive position of manufacturers subject to already stringent safety controls throughout the manufacturing process.

European manufacturers, to gether with those in the U.S., already complain that in some markets national safety legislation can be used as a trade barrier and that in other markets buyers' concern over price rather than safety design features and quality can aid competitors.

It therefore appears inevitable that the pressure for the standardisation of international safety legislation will increase. Both the safety bodies and the manufacturers in countries where strict safety standards already exist are concerned that any process of rationalisation of safety standards should be upwards rether than simply a levelling-out exercise



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STORMS WATER COME TO THE STORY Despite the difficulties being faced by the UK crane industry, some manufacturers are finding new ways of diversifying and increasing their productivity, as GEOFFREY OWEN reports in the following profiles.

Mood of optimism

MR. J. ROGER BAKER is not of United States Steel Corpora- for more. New types of crane optimistic about the short and medium-term future of the heavy crane business, but he is of last year a £4.7m order was 'of PWR (pressurised water optimistic about the future of obtained which will be shared reactor) nuclear power stations; NEI Clarke Chapman Cranes between Wellman Cranes at design contracts have been won Well Clarke Chapman Cranes between Wellman Cranes at design contracts have been which happens to be the UK's Darlaston and Clyde Booth at in the U.S. and the UK. largest heavy crane manufac Rodley. Under an agreement Moreover, there is scon developing crane-related turer and of which Mr. Baker is managing director.

The apparent paradox reflects. French power station is being the company's determination to made at Wellman. offset the static or declining market for cranes with other engineering products which suit the skills and facilities of its six manufacturing units. The success of this policy is illustrated in the company's performance in 1979, when traditional residuals and the company's performance in 1979, when traditional residuals are successful.

The company, which now has include a big ladle crane for 2,300 employees, stems from the the Port Taibot continuous amalgamation in the late 1960s casting plant and three of three companies—Clyde unloaders for the Castle Peak Crane and Booth Wellman Cranes and Sir William Arrol—which represented a large part of the UK's heavy crane industry. The merger was followed by a rationalisation of products and plants, so that each unit could concentrate on the could concentrate on the machines for which it was best suited; duplication in design work was cut out.

More recently, the company has moved into a different sec-tor of the crave business by buying Thomas Smith of Rodley, makers of draglines and crawler-mounted cranes, its plant is adjacent to that of Clyde Booth and there is scope for rationalisation between the

two factories. The heavy crane industry was certainly too fragmented in the 1960s and in that respect the mergers achieved their purpose. But what no one anticipated at that time was the precipitate fall in demand, especially in the UK.

Hence, in the last few years Mr. Baker and his colleagues have been bending every effort to find new products which would maintain throughput and employment in the factories. He has had to persuade potential licensors of the advantages of having their products made in the UK, and of Clarke Chapman Cranes' ability to achieve the desired standards of quality and cost.

So far, the results look promising. Wellman Cranes, for example, is manufacturing USI Clearing of Chicago; market. another machine will be going The

with Zokor of the U.S., a big tunnelling machine for a

Nearer to the traditional business, John Boyd at Annan used in the company's own is making 10 rubber-tyred con-machines. tainer cranes for Fellxstowe, under license from Paceco of

Mr. Baker is not deserting the crane industry - he is tional products accounted for fighting hard for any business only 40 per cent of total sales, that is going. Recent orders power station in Hong Kong. But one of the attractions of the licensing agrements, apart from the work they provide to from the work they provide to the factories, is that they free DIVERSITY



Mr. J. Roger Baker, managing director of NEI Clarke Chapmon Cranes-Britain's largest: manu-The company is successfully diversifying its engineering production to offset the static market for

стапев

two large power presses for BL the company's crane designers. Cars under an agreement with to concentrate on the crane

The company has itself ito Canada. There is an agree- licensed several overseas crane ment with the Oilweil Division manufacturers and is looking tion for the manufacture of have been designed to meet the drilling equipment, at the end particular safety requirements

Moreover, there is scope for developing crane-related products in-house, such as gear-boxes, hydraulic equipment and grabs, which can be sold to other manufacturers as well as "It has been a difficult two

years," says Mr. Baker, "and the crane market is still going down." But he is full of praise for the way his employees have got to grips with the non-traditional products and the changes which are involved. The aim is to maintain the company's strong position in cranes while ensuring that at least 50 products outside the crane field.

of products

MR. PATRICK McTIGHE, group managing director of Herbert Morris, joined the company as marketing director in 1970. It was a time when a new management was beginning to steer this old-established company in new directions: the original Herbert Morris started importing German pulley blocks in 1884 and began manufacture at Loughborough, its present

site. in 1897.
"We looked carefully and systematically at the market," says Mr. McTighe, "and we tried draw some conclusions from it." This led, for example, to a new emphasis on the servicing, nspection and testing of cranes through a separate subsidiary, Crane Aid Services, recently strengthened by the acquisition of Lloyds British Testing. "It was one area of a slow-moving capital goods market where demand was growing rapidly,"

he says. Similarly, Herbert Morris revised its marketing arrangements at the low-cost end of the market, switching the sale of pulley blocks, electric chain hoists and similar items from direct selling to a network of



Mr. Patrick McTighe, the group managing director of Herbert Morris. (me of the company's strengths has alumis been its wide range of industrial cranes. recent years, this range has been extended

One of Herbert Morris' strengths has always been its wide range of industrial cranes. In recent years, the range has been extended, partly through internal product development, partly through co-operation with other companies co-operation with MAN of West Germany on large steelworks cranes. A new design of ship-toshore crane has been developed: three 40-ton sliding boom cranes were installed at Seatrain Docks, New Jersey, and recently new self-erecting "Samba with 115 ft outreach was built

for Sea Container Services. Morris developed the "crane kit" concept whereby the more specialised components and the expertise are supplied from the UK, but the crane itself is manufactured locally. On major capital projects, Morris formed links with other British manufacturers in order to secure the necessary financial strength to bid for this type of business—a big contract in South Korea was won on this basis.

In the early 1970s, Herbert Morris was the target of more bids and counter-bids than most companies have to endure. The management fought hard to retain its independence but in the end settled for an agreed

merger with Davy Corporation, the leading UK-based engineering contractor.

The link with Davy provides advantages both in financial resources and in marketing terms, though the spin-off in direction in Morris' total business. In any case, during the past year or so fewer hig projects of the type which Davy competes for have been available; the competition in the whole capital goods field has been extraordinarily fierce.

As with other crane makers, Herbert Morris has been hit by the dearth of domestic orders from steelworks, shipyards and power stations. A factory in Manchester, making heavy cranes, was closed — "We have got to raise our productivity and match up the company to the size of the market," says Mr. McTighe.

The company has close links with Loughborough University We are always looking for ways of enriching the mix of ideas about product development," says Mr. McTighe. The company has invested in computer-aided design, in numerically-controlled machine tools and in other ways of boosting productivity.



Mr. Darid Percy who last year became managing director of J. H. Carruthers. the long-established crune company, based in East Kilbride. It is now a Engineering Group

all, the continuing high level ment and for new investment factured locally of inflation make it difficult to in machine tools.

Meanwhile, generate funds on the sort of scale which Mr. McTighe would regard as satisfactory.

Change of

MR. DAVID PERCY, who is 46. spent 12 years with Ferranti, During the next few years Mr. Carruthers's new generation of managed the British subsidiary Percy plans to build up the non-cranes — "the most signifiof Oerlikon Buhrle of Switzerland and later ran his own machine tool business. Last year, he became managing director of H. Carruthers, an oldestablished crane company based in East Kilbride, Founded in 1887, it was privately owned until 1973 when it was acquired

by Burmah Oil; it is now a member of the Burmah Engineering Group. Mr. Percy sees his task as that

strategic direction to the comincluding a stronger position in overseas markets and are being established in overa greater emphasis on non-crane seas countries, with the design, in the business.

But inevitably the weak home products. With the revival in expertise and certain commarket, the difficult competitive Burmah's fortunes, funds are ponents being supplied from situation overseas and, above available for productt develop- the UK and the cranes manu-

> Chapman Cranes. Mr. Percy regards the big East Kilbride besides cranes

Carruthers has a good technical reputation — in 1969 it crane in the 1960s." won the Queen's Award for technological innovation for its Monobox crane design concept build on this in the development of overseas business. The link with Burmah makes it Percy hopes that as the noneasier to establish a presence crane side is developed he can overseas; and four key terri- make better use of the large of giving a new sense of tories have been selected for facilities which he has availconcentrated sales attention, able and achieve a satisfactory

Meanwhile, Carruthers is Like Mr. Baker at NEI Clarke widening its range of cranes, especially at the lighter end of the market. In April, the comworks, with its 300 employees, pany introduced the Unibox as a heavy engineering facility crane, with a lifting capacity of capable of producing other items up to 15 tonnes, which it claims, will cost up to 20 per cent less Several lines of diversification than comparable units. The are being pursued. Two licensing design is based on standard agreements have recently been components to suit any shape concluded which should bring of portal roof. Mr. Percy additional orders to the factory. describes it as the first in crane side to account for at cant electric overhead travelling least 25 per cent of turnover. crane development since we launched the Monobox girder

Order intake in the first quarter of the year was substantially up on the same period - and Mr. Percy intends to of 1979 and most of the new traditional products. But Mr. Satellite manufacturing units return on the new investment which Burmah is now making

UK companies succeed in North Sea projects

IN THE early years of North technology for heavy lifts. With company. Well-known for its built equipment, since U.S. companies had the most experienc of this business. This certainly applied to the cranes which are needed to transfer equipment from supply vessels on to the platform itself.

But two factors gave British crane-builders an opportunity to break into the market. One was the fact that North Sea conditions were more arduous designed; as safety standards th strong political pressure on the oil companies to buy British equipment whenever possible.

One of the British com-panies which took advantage of pany has had long experience of marine work, especially in severe weather conditions. dockside cranes and cargo handling, deck cranes, and it has done well in the North Sea is particular strength in jib crane Priestman Brothers, an Acrow

Sea oil and gas development, its traditional business tending crawler and wheel-mounted operators of offshore platforms to decline. North Sea platforms cranes and excavators, Priesttended to use American-offered a natural avenue for man used its experience of designed and often American-diversification. The hazardous hydraulic control systems, slew diversification. The hazardous hydraulic control systems, slew conditions and stringent safety requirements put a premium on high-quality engineering.

Offshore platforms

Since 1973, the company has been supplying its OS series of pedestal-mounted cranes for offshore platforms; they have been ordered for a number of North Sea installations, includthan those for which some of ing the Ninian Central Southern the existing cranes were and Northern units An additional safety feature which can were increased, new designs be fitted to these cranes is what were needed. The second was is called "ultimate protection." be fitted to these cranes is what a system developed in conjunction with Humphreys and Glasgow. It is a sophisticated

package of equipment, designed panies which took advantage of to minimise the risk arising the opportunity was Stothert from overloading. Features of and Pitt of Bath. This com- this kind make it possible for cranes to be operated even in

Another company which has

rings and other key components to develop the Sealion range of pedestal-mounted cranes for offshore platforms. The first order, for a 30-ton crane, was placed by Conoco in 1974. Since then, the range has been extended up to 100 tons and other customers include British Petroleur Union Oil, Amoco and Shell.

There may be scope for these companies to build on their North Sea experience and compete for orders in other parts of the world, especially as most of the same oil companies are involved and the task of obtaining all the necessary official approvals has been completed. There are, however, not many areas where conditions are exactly comparable to the North the establishment of customer service arrangements on an international basis would represent a sizeable investment.

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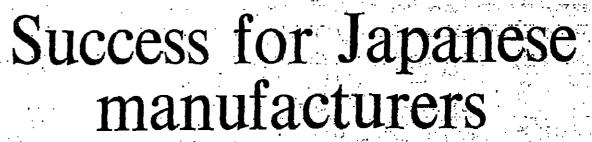
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ONE SURE sign that a Japanese industry has achieved success is when the industries in other countries (baving failed to make even the slightest dent in a lucrative Japanese market for their products) begin suggesting protectionist measures to limit imports. By that measure, Japan's mechanical handling industry (centred on forklift trucks) is doing very

Forklift trucks were unknown in Japan until after World War Two, when the occupation forces introduced them for the first time. The initial response to the labour-saving vehicles is said to have been negative on the part of companies loathe to upset workers by replacing them with machines.

Remarkably, however, the Japanese market dominated by Japanese market dominated by three companies, is now the second largest single national market in the world (55,000 units in 1979 compared with 90,000 in the U.S. and 78,000 units for all of Europe). Moreover, the Japanese share of the Western industrial forklift market has visen to about one third ket has risen to about one third the total demand.

the total demand.

Last year, forklift production
(93,000 units) in Japan was
worth Y150bn (£288m), more
than triple the value of ten
years earlier. The total value
of all industrial vehicles in 1979 reached Y352bu (£677m) compared with Y108bn (£207m at present exchange rates), in

The Japanese success in exporting forklift (roughly 40 per cent of all sales) has made imports into Europe a lively topic of discussion at recent bilateral private level meetings.

Although definite moves to restrict imports have not been

even making the Japanese uneasy about their success.

A further irritant on the trade side, and one which is common in other industries, is (who take 31 per cent of Japanese forklift exports) nor the Americans (35 per cent) have shown any obvious signs of penetrating the large Japanese market. Foreigners are, in striking contrast to Japanese enthusiasm for overseas markets, glaringly absent from Japanese industrial fairs. Total forklift imports, according to Japanese companies,

could be counted on one hand. The Japanese further argue that they have encouraged the Europeans to look more closely at their market, and claim there are no obvious tariff or nontariff barriers to keep the foreigners out.

These claims may on the surface be true. The fact is, however, that any European producer trying to penetrate the Japanese forklift market at this stage must contend with werful competition. The two leading forklift makers in Japan, Toyota Automatic Loom Works (a 35 per cent share of Japanese production) and Komatsu Forklift (25 per cent of the 93,000 units made last year) are both part of very powerful industrial groupings.

Toyota is the nominal parent of Toyota Motor, the biggest motor company, while Komatsu is a subsidiary of the biggest construction machinery pro-ducer in Japan, bearing the

vehicle maker is Toyo Umpanki, are integrated into automated which has a 10 per cent share handling systems. Developed

with minor shares.

which, as its name suggests, that neither the Europeans started as a textile machinery (who take 31 per cent of company in 1926, did not begin Japanese forklift exports) nor to produce forklifts until 1956. It has, however, leaped ahead of its competitors in part because of the resources it can draw on in other sectors of the cause they must be custom-Toyota group. Its exports are tailored for individual custo-handled by the group's giant mers. But interest in the tech-sales company, engines and nology, on which the company components are produced by

> Toyoda also has what it claims to be the largest single forklift plant in the world, capable of turning out 35,000 units a year, opened in 1970. Hungary's Balkan company says it has a 60,000-unit capacity plant, but Toyoda strongly doubts this reflects actual pro-

duction levels there. The second major company, Komatsu Forklift, had its start as a post-war producer of parts for the Komatsu parent, coming under the wing of the Komatsu group by the time it produced its first forklift in 1952. The company has set an ambitious goal of more than doubling its yen 49bn) by 1983, increasing its production of forklifts to 38,000 units from 24,000 units last year, and continuing to lead the rest of the industry (worldwide) in introducing new tech-nology for materials handling

The most striking feature of the company is its advance into the field of unmanned (com-The third largest industrial puter controlled) forklifts which

(but exports a greater percen-initially four years ago for use the Japanese are taking now is tage of its forklift production in plants where workers cannot than the big two), followed by operate, such as nuclear power, about five other companies chemical and deep-freeze facili-- ties, Komatsu's management Toyoda Automatic Loom, figures these systems will repre-

> Komatsu has so far installed about 20 such systems, one in (around Y100m on average, benology, on which the company holds patents in the U.S. and Europe, is growing. At least one major British chemical company is known to be studying purchase of the unmanned fork-

Komatsu also appears to be the most advanced company in applying electronic technology ing recently introduced a machine which uses a microcom-puter to replace the traditional mechanical levers to control the lift more accurately (making possible the use of less-skilled

perators) The greatest threat to the Japanese industry appears to be the possibility that protecbuild in Europe, where the various national industries tend to divide the market and thus inhibit the emergence of companies which can match the sources of the Japanese.

The Japanese, however, are clearly worried that once again their "success" could lead to trade problems putting a dragon what has otherwise been a thoroughly "uplifting" per-

Richard Hanson

Stagnation in U.S. market

facturers of lift trucks, squeezed between the twin pressures of a cyclical downturn in demand in an industry which seems in most respects mature.

The leading companies, Clark Equipment (with an estimated 7 per cent of the U.S. market). Hyster (20 per cent), Eaton dustry than these cyclical patterns is the fact that the peak Caterpillar Tractor (15 per in the cycle in 1979, at 109,000 cent), were pleasantly surprised by the maintenance of steady than the previous cyclial peak demand in the final quarter of of 103,000 units in 1973. last year, as the U.S. economy

sustained into the first two months of this year, partly because customers were building stocks ahead of a possible labour pay dispute. But by March, demand was dropping dustry in the period between fast enough to produce a first the two peaks concentrated quarter earnings decline at more on making the greatest Clark, which reported profits of \$21m on sales of \$461m, com- facilities than on building new pared with \$28m on sales of plant. It will take a sharp in-\$414m in the first quarter of the

According to the Materials industry, he feels.
Handling Institute, shipments The companies Handling Institute, shipments

The companies themselves, roughly one per cent of the U.S.
of all material handling equiphowever, appear to have premarket) one of this group,
ment (of which lift trucks pared quite well for the Caterpillar, has posed some of

THIS YEAR looks certain to be comprise less than half) were tough for the U.S. manu-up by only 8 per cent in dollar facturers of lift trucks, squeezed value, to \$1.2bn in the first quarer. Also, by January, ship-ments had begun to exceed the rate of intake of new orders. Eatons is forecasting a 16 per cent decline in lift truck industry sales in North America this year, to 84,000 units.

But more worrying to the in-

In other words, an industry which used to count on an For Clark, that trend was average 4 per cent a year growth, appears to have stagnated. According to Mr. Alex Blanton, an analyst who follows the industry for Merrill Lynch, capital spending in U.S. inuse of existing floorspace and crease in new plant commissioning to create growth in the

debt burden is much lighter and large fleet sales. last year it turned in a com-

cutting programme in the U.S. which involved reducing the

Australia have also helped. Eaton and not within reach of Caterpillar or Allis Chalmers, although all three companies of the manufacturers is seeking

Europe, South America and

In spite of that, along with

pressures they now face. Clark the harsher competitive quesenters the current recession tions in recent months as it has without several troublesome sought to expand its market diversified operations which it share by a tenacious pricing still had on board in 1974-75. Its policy, particularly in seeking

The presence of such formidmendable 18.4 per cent return able names in the U.S. industry on equity. Clark is now reaping —Clark is the world leader—has the rewards of large new cost not, however, prevented a efficient plants in Kentucky and worsening of the country's West Germany. Hysster's return balnce of trade in material on equity, meanwhile, has bandling equipment since 1974. The growth of imports, at an annual average of 26 per cent, has been almost double the size of the middle management rate of growth in exports. The corps by about a third and a schual balance, however, resuccessful marketing campaign around a streamlined product with exports worth \$825m range. Strong performance in

range. Strong performance in slow growth in exports is the attention the U.S. These figures are matched at have paid to establishing and expanding plant overseas.

Another trend to which each depend far less on lift trucks to respond is the market's than Huyster and Clark growing preference for elec-(material handling gear com- trically-powered vehicles rather trically-powered vehicles rather prises only 14 per cent of than petrol- or diesel-propelled Eaton's business, for example). units. Clark's Kentucky expansion, which will raise capacity Japanese competition (holding concerned with increasing outby over half, is almost entirely put of this type of machine.

lan Hargreaves

New systems from Finland

IN THE current drive for costcutting in the consumer goods industry, goods handling and storage to-gether comprise an important opportunity tends to be overlooked.

Kone Corporation, the Finnish multinational manufacturer of lifts, cranes and materials handling equipment, while had aiready produced conventional warehousing systems, foresaw a demand for more advanced solutions in this area.

It had long experience of the technology and know-how required. By hindsight, it seems natural that it moved all the necessary elements—crane, conveyor and electronics technology — under one roof, so to speak, some five years ago.

The then new Warehousing Systems Department of Kone Lift Group, was assigned the job of developing systems that would move the goods from the production plant into storage and on to the retailer (supermarket hotel, and so on), with systems, conventional high-rise storage systems and Speed-O-Stack stacker cranes with automatic or manual control.

"Our systems are not for everyone," said Mr. Paavo Kotilainen, director of the department. "The warehousing system-suits the need for a buffer storage between the producer and the consumer. At the same time, it provides sophisticated sorting possibilities for indivi-dual orders."

A typical client is a large brewery, and the Mallasjuoma warehousing system is perhaps the best way of illustrating the working principle. It was com-pleted in 1979 and is claimed to be the first of its kind in

Mallasjuoma Oy is one of the biggest brewers and soft drinks producers in Finland. Its peak daily production at the Lahti and loaded into waiting confactory is 80,000 crates of bev-tainers which are trucked to

minimal intermediate handling.

The department's current new mechanised warehouse, range of products comprises Rollax flow-through storage Rollax flow-through storage rapacity of 400,000 crates, 9.6m the shipping documents. bottles. It is a high-rise storage working on the flow-through, first-in-first-out principle, important for perishable or semiperishable goods.

Only two stacker cranes are needed for the entire warehouse, and they are computer-controlled. The crates are automatically pallets which lock onto "buggies," (wheeled steel frames). The infeed stacker crane places these in the in-clined (0.3 per cent) storage racks and they run down the racks by the combined force of

At the other end of the rack, the retriever stacker crane, acting on instructions from the computer, removes the pallets and loads them on retrieval lines. The pallets are then separated from their buggies

from 1,15 to 2,0 tonnes.

gravity and a simple transfer

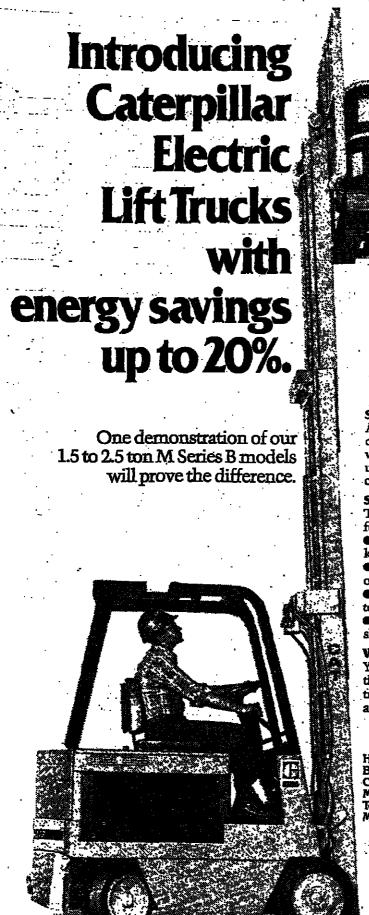
country. The computer not only the shipping documents. Included in the system is automatic order selection which

ensures that pallets are made up for onward dispatch according to individual client orders. In other systems, the pallets are kept on their buggies and are quick-loaded into trucks. They are then, on arrival at the store, hotel, or other final destination, easy to move by inserting a simple lever device into the buggie. The Lahti warehouse is manued by one foreman, one warehouse charge hand and (to load the con-tainers) two fork-lift drivers per shiff. An additional two drivers look after local distri-bution needs. The traffic flow through the warehouse is 120 pallets per hour in and the same number out. The total investment cost was USD 2.5m, of which USD 750,000 was for the building.

Lance Keyworth



A FORK TRUCK THAT IS DESIGNED TO OUTREACH THE REST. FACT: In October 1978 Climax launched their new R 2,0 reach truck creating a comprehensive range of moving mast and pantograph reach trucks in capacities



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Double blow for conveyor market

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sales.

individual continues in the led growing At les we to be study there are fears that British major system for the Port industry in general is not Talbot steel works. It is also well as others, particularly Mexico.

ivanced company i ectronic technolog adard forklifts, he UK process plant companies, trying hard to sell its continuous which are very often the buyers ich uses a micros
place the tradical
levers to control of conveyor systems for plants adapted to be carried on board built abroad. It is felt that the ship, either to be built in or lead in this field being estab- added later as a modification. lished by companies such as As with other companies in this Lurgi, Krupp and others is put heavy end of the industry, Babting German conveyor com- cock-Moxey is going through a panies like Buhler-Miag in a

strong position.

The industry is also aware of welcome development the likely need for high capacity. Another British company sibility that prop continuous unloaders to take the place of the grab system as higher volumes of coal need. const industries to be market and to to be transported around the world, a field in which Babcock-Morey, a Babeock Contractors subsidiary, GEC Mechanical Handling and Simon Carves are

ried that once to Although the continuous profully developed for purposes recent grain silo explosions in such as handling grain, phos- the U.S. gave a boost to sales, phates and coal, none has yet since Redler conveyors can have been built of high capacity to unload coal from large ocean carriers. Arguments persist Around 40 per cent of the that the grab method is more company's business is in grain reliable, but the advent of the handling, and it supplies comcontinuous machine has been plete packages including eledelayed only by the recession in vators, weighing equipment and the world steel industry and the other ancilliaries, often under development of grabs with very sub-contract. Most of its recen high capacities. Few would activity has been in the Middle argue that with large loads the East, where capacityl to handle continuous process can be faster incoming grain has been inand cheaper, but there are still creased enormously in recent fears about reliability of new years. It is just completing a machines. £7m contract in Iran. machines.
The opportunities in this area

since some estimates put the panies in the grain handling growth of seaborne trade in coal and processing sector, often

This has been particularly exports most of its output. Up of these companies against significant in competition with until that time most of its foreign competition. It has been their major rival. West business was in ore handling, foreign competition. It has been forced in recent years to look abroad for contract busines, and lapan. However, the longer recently supplied equipment for the providing station, for which GEC is the some encouragement, although waste corrected about the performance of these companies against foreign competition. It has been forced in recent years to look abroad for contract busines, and has also successfully, made more use of its design and technical expertise.

In the UK GEC has remained products in the UK, but now

Competition is very tough, This applies mainly to the however, and the company is unloader system, which it has difficult time and the predicted

> which has suffered from the decline of the UK market is Redler Conveyors, part of the Brockhouse Group, although has more than made up for it abroad, winning a Queen's Award for Exports this year.

The company's sealed all-stee standard conveyors have long been the mainstay of many cess unloader has been success- systems world-wide, and the pressure tight casings to avoid ignition risks.

Henry Simon Contracting, are now widely recognised, one of the strongest UK com-

of these companies against cut the cost by one third.

In the UK GEC has remained a major customer, and ICI has responding to this challenge as carrying out work in Egypt and recently bought more than chemical and the coal industry panies, often dependent on one companies account for about 20

cerned about the performance India. The new design has also

In the bulk handling sector in Britain a few well-established companies, which include Adamson-Butterley, Fletcher Sutcliffe Wild, GEC Mechanical Handling, Strachan and Han- are direct exporters, while shaw, Cable Belt and Anderson Strathclyde, dominate both the industry and exports, while there is a host of smaller com-

The increasing importance of

BRITISH MANUFACTURERS as 50 per cent up on current of bulk conveyors, having been volume by 1985, and the comdition comes mainly from competition comes mainly from comes mainly from comp exports for the industry has led to recent co-operation between the Mechanical Handling Engineers' Association, and the National Economic Development Office, and it is intended that an industry export conference to discuss the broad question of exporting will take share of the world market has place in the not-too-distant also risen steadily in the past few years although it is still way behind West Germany and One successful scheme to use

about half that of France. the joint resources of the industry to promote exports has It is estimated that about 60 taken place in Venezuela, regarded to be a prime market per cent of conveyor companies due to its considerable mineral nearly 10 per cent of companies resources and oil revenues which are likely to speed up export more than 40 per cent of their total sales. Around 2 their exploitation. per cent of the sector's largest

MOMEX (Mechanical Movement of Materials Export Group) has been set up in Venezuela, with a full-time representative resident there, aimed at winning orders for its 12 member companies which include seven conveyor companies, one other mechanical handling manufacturer, merchant bank, and National Enterprise Board. the

Members include British Ropeway Engineering, Don Valley, IDC Consultants, Taylor Woodrow Construction, Stothert and Pitt, Universal Conveyors, Arbuthnot Export Services and Dunlop Belting.

CONVEYORS WORLD TRADE SHARES

7.9

1977 West Germany 15.6 13.2 7.9 8.9 Bel-Lux -----3.7 2.9 5.6 Netherlands

Source: National Export Statistics

Spain

win any orders, its operation is belting. regarded as an important cooperative step within the in- as a whole is highly dependent dustry and after a period of con- upon a very wide spread of insolidation further such ventures are expected to be considered. since they offer considerable cost benefit advantages,

Perhaps one of the clearest indicators within the industry of overall demand, is the level of orders for belting from the major UK suppliers, who are Dunlop Belting, Goodyear, BTR and Uniroyal. These companies are major suppliers to dozens of smaller companies which add mostly metal conveying units to

the basic belts. Dunlop reports that demand can expect little in the way of has been fairly flat recently, rapid growth. but attributes this mainly to the British Steel Corporation strike

Although MOMEX has yet to since it is a major buyer of

However, the belting secto dustry for the major part of its business, which is replacement belts. It points out that if the economy slows down, Dunlop's output does at exactly the same rate, since belting used in manufacturing, building, and every activity does not wear out so

Overall, there appears to be a good outlook for some sectors particularly that associated with coal handling, while many those companies wholly dependent on the UK market

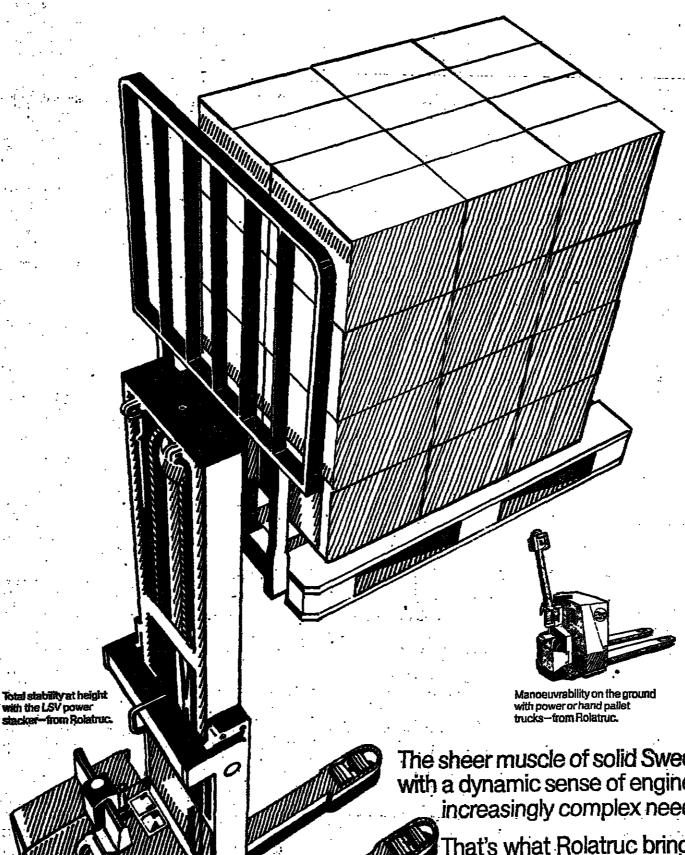
Lorne Barling

THE UK CONVEYOR INDUSTRY (£m-1978 values)

	Output	Of which e	xports %	Apparent home consumption	Of which	imports °°°	Trade balance
1975	270	44	16	248	22		+22
1976	263	42	16	245	24	10	+18
1977	265	51	. 19	236	22	9	+29
1978	273	48	18	251	26	10	+22

Source: Analyses of Department of Industry and international trade statistics. World trade has been estimated from the exports of the ten principal mechanical handling exporting nations.

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Some concern in unit load sector

THE UNIT LOAD sector of the strong areas of the market as British conveyor industry is and when they occur, both at heavily dependent upon capital home and overseas.

Investment by domestic industry. One of the newer companies to sustain its output, and in this sector, Hytrac, has built although many such companies up a turnover of around £3m a have a good backlog of orders, year in Britain and £2m in the there is some concern about the U.S. over the past 12 years, prothere is some concern about the prospects over the next 18

that Britain's manufacturing mere ounces. industry is responding to its liquidity problems by deferring investment plans, often those regarded as non-essential such as the replacement or improvement of conveyor systems in factories.

Afthough outdated conveyors may be costly in terms of their effect on output, it is felt by many companies that in the present economic chimate it may be better to live with that sort of problem rather than spend large amounts on new equipment. This is now being reflected in order books.

Conveyor systems of various types are common to most factories, but their greatest use is probably in the finishing the past few years, and BL is trades, which may cover any expected to maintain a reasonform of painting, coating or processing, and is part of the manufacturing process for a large range of domestic appliances. It is estimated that around 90 per cent of systems are of the overhead variety.

Broad base

this figure is expected to rise again this year.

from very-high-value ship unloaders and process plant to postal sorting equipment, it is general mechanisation for indus-difficult to identify a trend since try, document handling, and an one large order can radically automation division which deals alter sales volume, but it mainly with components hand-believes that in the UK orders ling. are becoming more difficult to win. However, the company's considerable strength allows it. to benefit from the failure of, smaller competitors to offer

fully provided letter sorting this sort in the Middle East, equipment to the Post Office's the company is optimistic about specification for a number of exports, but points out that years, but due to this design several companies are competrequirement has generally been ing for a small number of conunable to sell the equipment, tracts each year.

in the motor industry, and the the company says, but believes company as a whole had a turn-that many of these projects over of more than £20m last have had to go shead because year. It believes that the they have been started or are present problems within the nearing completion. industry can be overcome by being able to concentrate on Lorne Barling

viding a wide range of unit loan conveyors, extending in capacity It is increasingly evident from two to three tonnes to

The company's sales director. Mr. Eric Wright, said the UK market was proving increasingly difficult at present, with the result that there was tough competition between the main companies he regarded as nis rivals These included Redman Fisher part of Redman Heenan International, which is particularly strong in the motor components industry, and is in the final stages of a major contract to supply conveyor systems to BL for one of its new production

Despite the problems of the motor industry, Redman Fisher steady source of business over able level of orders, while Ford has a number of improvement projects in hand. General Motors is also examining some of its conveyor equipment.

Fenamech, the materials handling division of J. H.

Fenner, of Hull, markets a **Broad Dase**wide range of conveyor systems,
One of the most diverse com- and is active in the factory and One of the most diverse companies manufacturing conveyors is GEC Mechanical ment for handling pallets. It is thandling, which is now benefiting from the broad base of its activities. Just ever 30 per includes Midland Dynama, cent of its products were George Robson (Conveyors) and exported last year, compared Davies Pritchard and Richmond. It faces considerable competities figure is expected to rise tion against many of its protion against many of its products from Sovex Marshall For a company which ranges which has five basic divisions dealing with airport and baggage handling equipment,

Sovex sees the airports sector as being somewhat limited in the UK by the relatively small number of new terminals being built although there is likely On the unit handling side of facilities at the new terminal its activities, its mechanical planned for Heathrow. Having automation division has success won a number of contracts of the succession of the success

Orders for general mechanisa-GEC also supplies a range of tion equipment placed with unit-handling equipment for Sover in the past year or so general industrial use, such as have been at a satisfactory level.

New approaches to warehousing

THE VERY considerable effort Although major equipment which the warehouse equipment suppliers in Britain are industry has made to persuade receiving a high level of should adopt a completely new of them are maintaining a high approach to storage appears-to level of business, there is a

Germany and other countries detailed plans, purpointing me problems of their existing contents only to leave them warehouses by the thousand, while those in Britain are still pending. numbered in hundreds, has numbered in hundreds, has Another response to present been a very useful propaganda circumstances is to go for an weapon for the industry. But improvement of existing warethe important aspect of what is happening in other countries the degree of integration or computer-aided controls, achieved when planning warehouses in relation to produc- expensive tion, transport and flow of rebuilding goods—is also coming home to

It appears, however, that the effective most companies, since many are now thinking of ways to cut back expenditure or at least looking for investment plans that can be shelved without

companies that they inquiries at present, and many he at last having some effect, worrying tendency for com-The fact that Japan, West panies to draw up fairly ermany and other countries detailed plans, pinpointing the systems, only to leave them

> housing facilities, often by introducing coding although this can sometimes be expensive and involve the complete scheme.

The most versatile and cost-"quick response" message is getting across at a method of improving an ineffi-highly inconvenient time for cient or overloaded system is cient or overloaded system is the mini-computer, which can vastly improve stock control and can often be linked to the company purchasing department

the National Materials Handling giving up an advanced ware-Centre at Cranfield, believes house scheme, because of overthat in difficult times companies should go for a system which best suits their needs, rather than be over-ambitious and end up with a system which may have too much capacity and be costly in terms of capital expenditure.

He believes that the great reluctance by British companies to adopt the highly automated, high-bay warehouses of large capacity, as increasingly seen in countries like Switzerland, is because the economic pressures to do so have not been present in the UK.

The costs of space in the major manufacturing areas have not been high enough to drive industry up vertically, and labour costs have been comparatively low when compared with other European countries. There is also an extremely strong and persuasive lift truck industry in Britain which is good at selling its products.

THE HYSTER COLLECT

capacity, and returning to a conventional system, although this is clearly against the longterm trend.

Whatever justification is put forward for the installation of new warehousing, the most important factor for companies, perhaps wrongly, is initial cost. Most manufacturing industry still regards warehousing as a neces-sary evil which soaks up otherwise productive capital investment

as an investment which lacks flexibility, since a system based on lift trucks is not only adaptable in terms of capacity, but can be moved, sold or otherwise disposed of when necessary. Finally, an automated fixed-

Companies may also regard it

track system of the more sophisticated kind can easily cost up to 10 times more than a lift truck operation, meaning that there has to be a great deal more efficiency and other savings to

ritain which is good at selling justify the outlay.
These are the kind of objections, however, which a company large toy manufacturer like Mannesman-Demag has been

working life. And repay you with a higher resale value

So give us a call. With our range and your applications we

handling

Right now, we'd like to talk over your requirements.

firmly believes that despite the economic problems, a number of factors are now forcing companies to face what Demag regards as the inevitable.

On the vital question of cost, it admits that fork lifts are cheaper, but points out that after around five years it will be necessary to replace them or at least undertake a costly over-A stacker crane system. on the other hand, is likely to be operating perfectly well after 17 years, having been written off a couple of years earlier.

Demag is one of the most active companies in the automated warehouse equipment field, and is wholly owned by its West German parent, which manufactures virtually all the products of this kind. Its main compeitors are probably Munck UK and Fata, the Italian-owned company, at Milton Keynes, although their products vary

Demag's basic product is the Decombi system, which has been adapted from the German design

countering for years, and now similar form is sold in many other parts of the world. It is a narrow aisle order picker and will cost upwards of £15,000, depending very largely on its application.

> The company has also begun marketing a new model, the Decomat, which is advanced in that the whole system is built around the operator who is seated in a gondola cabin. The first of these was installed recently at BL's Unipart store in Coventry. Demag also sells a pallet handling system called the Destamat, which starts at perhaps double the price of hte Decombi, and offers considerable versatility, including

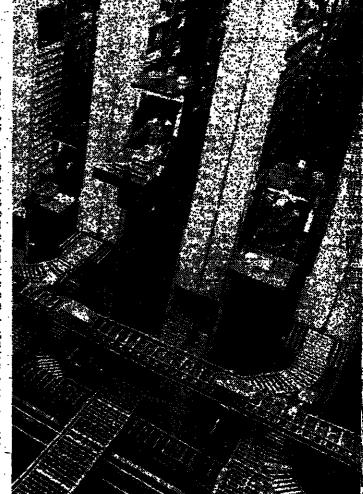
capability to do order picking. Demag believes that com-panies which go for short-term answers to their warehousing requirements will spend more money in the end. It argues that an automatic system not only offers far more accuracy than anything else but will cost far less in down-time.

The company suggests that these factors—increasing labour and space costs—which have forced the rest of Europe into automation, are now making British industry move in the same direction.

Demag believes that manufacturers of automatic warehousing equipment have enormous potential in the UK market, since virtually everything being serviced by a turret block or reach truck could be a market for a stacker crane.

to expand its facilities near Banbury, mainly for the purpose of increasing its output of mobile cranes, one of its other activities, but does not rule out the manufacture of warehouse equipment in the UK is demand

It remains to be seen whether



Wide interest is being shown in a Fenamechandling system which serves an Australian. warehousing operation — part of which is shown; above. The system was installed last year at the Smithfield plant of J. Blackwood to serve its Sydney industrial products division

The company is now planning the British market is now begin. It appears more likely that it ning to realise the folly of will be a mixture of both, where investing in short-term ware- larger companies must invest in housing methods which are modern; efficient equipment if costly in the long term, or they are to remain competitive whether these companies which in difficult times, while smaller have exercised caution and companies will be wise to retain decided to stick with the trusted as much flexibility as possible. fork lift will think themselves lucky in doing so.

Lorne Barling

Steady growth in leasing systems

British leasing industry has sumers. slowed slightly in the past year, and provisions in the recent Budget will have some effect on operation—but, overall, leasing remains a well-used and mechanical handling equipment

for industry. According to figures from the Equipment Leasing Association, new business carried out by its members during 1979 was valued at £1.8bn compared with £1.2bn in 1978, an increase of nearly 50 per cent. This com-pared with the £875m of new assets acquired by ELA memhers in 1977, and the increase of around 80 per cent achieved

No figures are available for the mechanical handling sector panies assume that its growth has been broadly in line with that of leasing as a whole, and at a time of liquidity problems within industry it is likely that demand will hold up reasonably. well this year.

Equipment which is leased most widely remains fork-lift trucks and cranes of many types, although the mobile variety is perhaps the most

It is possible that at a time of stagnant or falling produc-tion within industry, there may be more of a tendency for companies to opt for short-term hire rather than leasing, but at the same time there may well be a swing away from outright purtowards leasing if companies feel the need to retain their capital resources.

Two inter-related factors have major effect on corporate decisions on whether to lease or buy, the company's individual tax position, and prevailing interest rates, assuming that it is necessary for a com-pany to borrow for the purpose of renewing, for example, its fleet of fork lift trucks.

Although leasing may appear to be most beneficial for smaller companies which lack a broad asset base, they are more likely to experience cash-flow problems in difficult times and therefore need to consider the implications of a leasing agreement more carefully.

The essential aspects of leasing are that the leasing com-pany, often a subsidiary of one of the major banking or finance throughout period of the agreement. The customer (or lessee) benefits because the leasing company is allowed to depreciate the asset fully in the first year and pass on the advantage, with the

The 100 per cent first-year allowances for industrial and one with an annual income of commercial concerns continue £50,000 could buy leased assets as before—but, from June 1, a of a similar amoundt and effset 25 per cent per annum writing—that against income-tax. down allowance will apply to lessees who are non-residents of Britain, tax exempt bodies largest areas of leasing busi-

accompanied by a certificate describing the plant and machinery and stating that it will be used for a qualifying throughout requisite period." This period

begins when the asset is first used by the owner and normally ends four years later, or on earlier sales. It is not clear how the Inland Revenue will view deals that were signed before March 26 this year, but due to prolonged construction periods will not be brought into use for some time.

attitude towards sub-leasing of assets which are exported, and consultations are taking place. This was due largely to a consultative document on the subject which was drawn up towards the end of last year, which contained far more detailed proposals than those

There has also been some uncer-

tainty over the Inland Revenue's

eventually contained within the new regulations. Generally, the reduction in allowances was designed to prevent what was regarded as their misuse, and was accepted by most ELA members as being justified, although they will clearly have a considerable effect on some areas of business.

Attraction

On the export side, it had become attractive for a foreign company to acquire leased equipment from the UK on terms which were preferable to interest rates prevailing locally, and it is estimated that business of that nature worth at least £30m was done last year, although the figure may have been much higher.

It was also believed that the rate of increase of that business would have been high this year, since more and more comcanies were becoming aware of its advantages. As a result of the restraints now imposed, it is expected to decrease con-

business to local authorities and central government was estimated to have reached nearly £100m last year, since it was particularly attrac tive to borough treasurers who were up against restraints on spending, and despite the cut in the allowance, may continue groups, retains ownership of to be in some circumstances. given the high level of interest rates. The

leasing business by casual lessors was regarded as one of the biggest abuses of the tax allowance, since it had become exception of certain circum- a means of providing a tax stances outlined in the Budget, shelter for high individual earnings. For example, some-

the UK, such as local ness with a figure of £415m. authorities and central Govern- although it has been overtaken

THE VERY rapid growth of the ment, and individual con- by cars as the biggest sector which recorded business worth Under the new provisions, a £486m. Hewever, the claim for 100 per cent first. of plant and machinery leasing year allowances will need to be has been remarkably fast, from a figure of less than £200m in

1977 The major question forcompany which decides that it does not want to bear the high capital costs of buying equip ment, is finding the most suit able alternative method of acquiring it, since a number of options exist. The right choice can only be made by summing up a number of factors such as ment will be needed whether the company is prepared to deal with maintenance costs, the importance of reliability, and the overall financial position of the company, particularly in

relation to tax. Under normal leasing arrangements, a company has the advantage of being able to choose exactly the kind of equipment needed and getting it new off the shelf, but at the same time is committed to that equipment for a period, which can vary according to the kind of contract drawn up. It is also faced with the normal running and maintenance costs, which may or may not fit in with other machines he is operating.

Contract hire, however, offers a greater degree of flexibility, although probably at a higher short-term cost. It also offers greater reliability since many contract hire companies operate a large fleet of fork lift trucks or have a range of cranes ready for hiring. In the event of equipment failure, alternative machinery is often available at short notice.

On the other hand, the major mechanical handling equipment companies which offer leasing arrangements are increasingly aware of the need to be competitive in a tought market, and are offering more immediate assistance in the event of reliability problems:

Hire purchase of equipment means that the user of the goods becomes the legal owher of the goods when the final payment is made, but for taxation purposes the company is treated as if it is the outright owner from the time of taking on the equipment, allowing it to take advantage of tax con-

Perhaps the best course for company is to approach one fthe major finance houses, or increasing level of truck companies which operates its own lessing or rental scheme, to seek advice on the most suitable way of acquiring equipment, given its particular

Outright purchase of equipment remains the most favoured method and perhaps 35 per cent of equipment is now supplied on the basis of rental or leasing, but the leas-Last year plant and ing sector is continuing to machinery remained one of the increase as a proportion of the total market.

circumstances.

produce it at the right time. Hyster from Barlow Handling. But that's only the beginning of the story. Because what you're really buying is reliability. Day in, day out. **Barlow Handling Limited** Head Office: Airfield Estate, Maidenhead. Tel: Littlewick Green 2151 Year in and year out. Utter dependability, even in the most RELAND A.H. Masser Ltd., Tel: Dublin 264511, Belfast 617126, Cork 508624 rigorous applications. INTERNATIONAL Coupled with the finest after-sales back-up service in the MATERIALS country. It all adds up to a remarkable investment in efficiency. HANDLING One that will yield handsome dividends throughout a long **■** EXHIBITION

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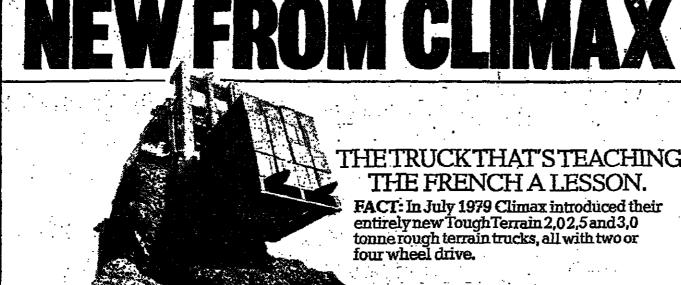
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application calls for cushion or pneumatic tyres, three wheels

We have the right truck, in the right configuration. And we can

lift truck for the job.

you just that.



Car industry is biggest user of robots

An industrial robot at Unimation's Telford, Salop,

ORITAIN has been slow to the correct position for feeding culty in finding human workers into other machines in the proof industry, let alone in mechanical handling applications. It lags behind West Germany, Japan and the U.S. It has been slow to the correct position for feeding culty in finding human workers into other machines in the proto do the fob anyway, the company has not taken into account machines are still under the equivalent labour costs development since they require when assessing the robots populations and representations. the car industry in the UK niques and sensors. which has led the move towards Automation for industrial robots and mechani-cal handling equipment and is

the country's biggest user. greater use of robots in the UK and even the Government has the use of automation than about the development of micro-electronics in the UK. The Department of Industry helped to set up the British Robet Asso-

matic machines which can pick
and place components which
will, of course, have wide appliclaims has improved production

a visual discrimination system, 12 hours downtime a year for incorporating a camera. They will be able to move parts into

Because there was great diffi-

Automation for mechanical handling applications have to cover an extremely wide range of industries. But Unimation, There have been some one of the largest U.S. robot mitiatives recently to promote makers, has said that about 35 per cent of all its inquiries are about machine tool loading and other uses such as unloading

Human discomfort

In the main, robots are introstidinars on the application of workers would find the environment unsuitable or physically uncomfortable. This consideration was a factor behind Metal Castings Worcester introducing robots to unload dyecasting association, in order to promote ation which arranges many duced into areas where human minars on the application of workers would find the environ-Aum Engineering Research robots to unload dyecasting Association, in order to promote machines. The extreme heat of the working and the contract of the contra A part of the service is the testablishment of a centre to be unloaded proved too difficult for human workers.

cations in mechanical handling. by 12 per cent because of Robots being designed in the reduced scrap waste. Metals U.S. and Japan are being Castings also says that the developed so that they can actu- machines have proved to be ally identify various parts, using highly reliable with only 10 to

A similar difficulty in finding workers willing to load 50 kg sacks on to pallets made ICI develop its own robot palletiser. After work with Nottingham University and Swedish robot manufacturer, ASEA, a robot capable of lifting 10 sacks a minute was developed, as well as being able to handle bottles. as being able to handle bottles and yarn bales. The work took 18 months to do and cost about £1m in investment.

which are a health hazard. Another example of a loading

and unloading applications comes from Hoover, the domes-

They have been installed in tic electrical appliances com-ICT's smaller and more versatile manufacturing plants where the robot system has proved to be better than custom-built palletis machines directly replace two directly will become popular. ing machines. But ICI has critimen per moulding machine and cised the mechanical handling the company says that the inindustry in general for its slow-vestment will be paid back over

rised the mechanical handling industry in general for its slowness to adapt robots to be capable of mechanical handling tasks.

But this is an important area of growth, especially in using robots to carry out loading and unloading of machines in areas which are a health hazard.

Lie two well be paid back over a two-year period.

Normally, the company would not introduce high technology in the general workplace because of the employment problems it would cause. However, Hoover encountered no opposition from the workforce because the robots replaced work prethe robots replaced work pre-viously carried out by contract

Pioneered

Robots are often introduced Robots are often introduced to automate just one part of a manufacturing process but increasing companies use robothandling machines to transfer work from one automated machine to the other. Many of those used in the UK are found in the car industry and in fact one of the first applications of this type was pioneered by car manufacturers as long ago as

companies making robots, onethird of all production in the car industry in 1977 was automated, with 7,000 then in use. Robots are used on car assembly sheet metal pressing for paint make all the supports advance ing and for assembling vehicles in turn as coal is extracted to

gent robots capable of greater versatility will become popular. The first will be able to identify components from their shape and, by the mid-1980s, it should be possible for them to detect colours as well.

in Japan, a long-term pro-ject, funded by its Ministry of International Trade and In-dustry, called MUM—Methodology for Unmanned Metalworking—aims to develop an almost completely unmanned factory employing only 10 people com-pared with 700 for the same

west Germany, which is also committing a considerable amount of funds to automation has concentrated on what is calls "Humanisation of life" which is intended to remove humans from work places which are either unpleasant or

Unadventurous

Britain has been fairly unadventurous as regards use of robots, although there are one or two pioneering systems, for example, in mines. Micropro-cessors are used to control hydraulic roof supports which are placed along the face from which coal is extracted. Using this system, one miner can make all the supports advance

industrial robots move authoardly shaped television tubes from process machines to conveyors during manufacturing processes

Without this system, each pit prop would have to be lowered in the warehouse and the comming the supervision of a put the particular item advanced and then raised again to retrieve a particular item closer to the face. But with the from store, all that the ware-microprosessor control, just house staff have to do is type one miner can operate the in an instruction, giving the code for the part and the comsafety of the roadway.

There are also several action to ensure that it is de-

There are also several examples of antionated warehouses where goods are carried for transportation.

automatically by conveyor belts in the design of such ware and robot tracks from after houses or stores; only the area moment they are unloaded from in which humans are actually lorries. These systems are working have to be designed usually controlled by a constitute custom.

"read" by a light sensor. The code on the goods determines

action to ensure that it is delivered at the perticular exit

puter system.

Discrete system

Elaine Williams

Lift industry in a low state

THE UK lift industry is still industry before there is an in a low state, with new busi- upturn. ness running at about 50 per cent of the sales achieved in some increase in office building

partially compensated during the recession by the current inthe recession by the current increase in modernisation and the latest decision on abandon-refurbishment work, said Mr. David Fazakerley, director of the association.

· The 30 or so companies in the industry which the association represents, produce about -95 per cent of the sector's though, in the modernisation manufacturing output. Six of of office blocks. Mr. Fazakerley them — the leaders being Otis. said: "The outlook for the the GEC-owned Express Lifts replacement market is not as and Kone Marryat and Scott, bleak. A large number of lifts now owned by Kone Oy of are now due for replacement. Finland — account for about However, this is tempered by -.70 per cent of the industry's the fact that companies are not ontput and virtually all exports, according to a recent National Economic Development sub-*sector report on the industry.

in Most of the big companies in the industry are subsidiaries of multi-national companies. Otis, for example, belongs to the U.S. giant of that name, and a large percentage of its exports are to Otis companies abroad. Exporting lifts is difficult—they are bulky and require a reliable

service network, particularly as andifferent countries demand speacific technical requirements. -Some work has been done on Some work has been done on instandardising specifications but has the sector working party wait. The present Public Auth-labrity Standard (PAS) for goods frank passenger lifts are as far has the Public Standardisation.

: Team can go. Close watch

"The Product Group has al-ready said that it will take account of, but not necessarily align completely with the new BS based on EN81."

It said it was keeping a close

watch on the progress of the directive "but this is an directive optional directive and the term European' regulation is not appropriate. Governments cannot enforce compliance with PAS and as far as replacement lifts and special site circumstances are concerned, com-pliance is not always possible." Standardisation does have its benefits, in that it could improve UK competitiveness abroad, but it also brings a degree of risk. Import penetration of lifts and escalators appears to have in-creased as a result of a more standard product in the home

During the past few years the UK share of world trade n lifts has decreased steadily. in lifts has decreased steadily.
According to Government
Engures the share fell from 7.7
per cent in 1975 to 6.6 per cent
in 1978, with imports rising
from 11 to 15 per cent during

At the same time the domestic market has contracted fairly sharply. Between the 1950s and early 1970s, the industry priore a sellers' market, with much construction work being done, particularly in the public sector. Thus in the early 1970s more than 7,000 new lifts and ascelators were being proescalators were being pro-duced every year. New sales

inflave now dropped to just above in 3,500.
If Mr. David Fazakerley said:
Our industry tends to follow The construction industry on a crime-lag of 18 months to two myears. Therefore, with the present state of the construcrion industry our situation will not change greatly in the next few years. Our concern is that there may be a further downin the construction

the early 1970s, according to the National Association of Lift Makers (NALM).

Closely tied to the fortunes of the construction industry, lift makers have only been some increase in omce ounting in the London area the nation—wide picture is depressing—particularly in the public sector, which accounts for nearly 50 per cent of the lift industry's sales and where in the construction industry. Government cut-backs expenditure, for example with

Saving money

eager to spend money on modernising lifts if they can continue in use for some further time, even if they are not pro-viding as efficient a service."

Mr. Keith Lindus, managing director of KMS, said: "The micro-processor brings a numher of advantages, the foremost being more computing power in inhuilt reliability of the conventional solid state system. addition to group control the KMS micro-processor system also provides for solid state motor control with its inherent energy-saving characteristics.'

KMS says that the savings of machine-room space makes the micro-processor ideal for modernisation of existing lift installations without major re-building work. The new system is currently being installed in the Theorem installed in the Thorn headquarters building in London. Much of the industry's busi-ness, however, is in the maintenance and service field, "That side of the business keeps us going during depressions in new business," said Mr. Fazakerley.

But this part of the manufac turers' business is under attack. A number of local authority direct works departments have started doing their own service work and a number of small maintenance companies have sprung up, often operated by skilled workers who have left the larger manufacturers. Currently these specialists service companies probably have about about 20 per cent of the domestic lift maintenance market. The sector working party said that these small independent main-tenance companies strongly interacted both with the tradi-tional pricing policy of the industry, where maintenance represents the most profitable

number of legal points

the same company.

There is little the trade association can do to affect or arres the growing amount of trade being done by the independents but the industry is looking at ways in which it can take effec-tive defensive action.

Liza Wood

While at present there is

There is some activity.

In this replacement market, as well as the new lifts market, manufacturers can now introduce new technological devlopments. Kone Marryat and Scott (KMS) recently announced what it believed was the first UK gearless group installation using micro-processor system.

part of the industry's opera-tions, and with the increasing imports of lift parts and com-ponents and the introduction of

A number of legal points arise from this development, particularly the responsibility for product reliability in cases where lift manufacture and lift maintenance are not done by

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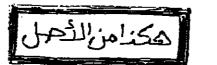
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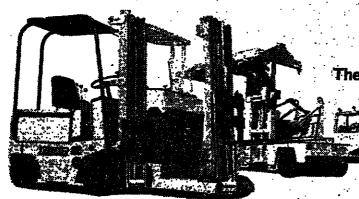
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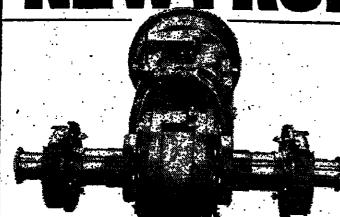
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trucks a very attractive economic proposition.

Growing diversity of lifting equipment

THE LIFTING and winding of production the company ment and Cranes (FMCEC) fact that a "standard-men" equipment sector is probably the most diverse section of the mechanical handling industry both in terms of products and

British manufacturers face the growing challenge of imports, particularly from Japan and the Far East, in an already competitive home market and the task of maintaing, if not ex-panding, exports in a contract-ing world market.

Nevertheless, despite the additional burdens of the current strength of Sterling, inflation in Britain and recent oil price increases, the UK industry, as a whole, has managed to halt the erosion of market share in recent years and maintain a small but jositive trade balance.

The wide product range and fragmented structure of the lifting and winding equipment sec-tor has added to the problems of those groups, such as the Mechanical Handling Sector Working Party of the National Economic Development Council, which is trying to establish a coherent industrial strategy for the industry.

Clearer picture

However, attempts to come to grips with these problems have, perhaps for the first time, resulted in a clearer picture emerging of the structure and nature of the lifting and winding equipment industry and its

markets.
The UK industry contains around 100 mannfactures. The fragmentation of the industry is reflected in estimates which suggest that the seven or eight largest companies account for about 30 per cent of the indus-try's output while the 50 smallest companies supply less than 20 per cent of total output. Industry surveys have also

shown a considerable variation in the size of companies within the sector although the 40 com-panies with sales of between film and f5m a year account for about 50 per cent of total sales. Many manufacturers also form part of the operations of sections of international companies and almost half the companies in the industry employ less than 50 employees.

The industry's products inwinches, capstans and lifting jacks and a variety of loaders including tail gate loaders on lorries, lifting platforms and access equipment. such as scissor lifts. Products tend to be more simple and of lower unit value than for the other sections of the mechanical handling industry although there are clear exceptions.

Within the sub-sectors of the lifting and winding equipment industry there are further product groupings and significant differences in market and pro-duct development.

One of the most dynamic sec-tions in recent years has proved to be the manufacture of access equipment, and in particular the development of hydraulic platforms,

The largest section of the market for access equipment comprises truck-mounted equip-ment, able to travel on the public highway. Other sections include off-highway equipment which is self-propelled and powered or manual industrial platforms, such as those used in

warehousing.

The UK market for truck mounted equipment is dominated by the market leader Simon Engineering Dudley, part of the international Simon En-

gineering.
Simon's success is founded on hydraulic' the development of hydraulic platforms used for a variety of maintenance and construction functions and, incidentally, by an increasing number of fire brigades. The company's products ducts range from a model with a working height of up to six metres (20 ft) to a triple boom model capable of reaching 31.5 metres (103 ft).

The company exports 70 per cent of its output to over 100 cent of its output to over 100 countries throughout the world —making it one of the half-dozen UK companies in the sector which exports more than 50 per cent of its output. Simon, in common with the other large UK-based manufacturers in the

a British company which, among them the industry's Defounded in 1964, has come to dominate the fast expanding new market requirements future of the industry are likely-inability to invest in moderate to be improving productivity. claims up to 85 per cent of the UK market, has to date failed to make any real impression in the Continental export markets. Nevertheless, Ratcliff is now

introducing an entirely new type of hydraulically-operated lift without the traditional columns and cables—aimed at winning a share in the expanding Continental market. Both the export ratio and import penetration of the lifting and winding equipment industry is higher equipment industry is higher than for an other section of the mechanical handling industry.

Historically, the sector has operated a very close relation-ship between manufacturers and distributors with both com-plementing their product ranges with bought-out finished pro-Estimates suggest that almost all companies com-plement their product ranges with some bought-out products and that bought-out products may total almost 30 per cent of total finished products.

This practice is of particular concern within the industry-particularly because figures also suggest that about half the companies which bought-out some of their finished product range import at least some of these products.

This has led to calls for a greater degree of co-operation between UK manufacturers in the design of complementary product ranges and-since some imported products appear to be imported by manufacturers because of their attractive price -for new investment in high volume production.

Despite the difficulties, the growth of imports of lifting and winding equipment into the UK (about half of which come from the EEC) appears to have halted. Indeed, imports which totalled £36m in 1978, have fallen slightly over the past five years corresponding to an improved share of the home market for UK producers.

UK exports

About 85 per cent of British manufacturers export some of their finished products, although exports appear to have failen in both real terms in recent year and as a percentage of company output The main problems identified

ing include difficulties in matching foreign competitors' prices which sometimes appear artificially low, the costs of exporting and difficulties because of UK inflation and the current strength of sterling and trade barriers in overseas markets including the complex nature of safety and technical standards.

These difficulties together with the impact of a declining world market have been reflected in a worsening trade balance for the industry, although it still remains posi-tive, and a reduced, albeit currently stable, share of world

In 1950 the UK's share of world trade for lifting and winding equipment was around 25 per cent. In 1978, its share of a £790m market was only 6.1

per cent. World trade in lifting and winding equipment has always been high but the most signifi-cant recent development has been the substantial growth in Japan's share, end that of other Far East countries, apparently largely at the expense of the U.S. and Sweden,

The substantial growth of Japanese exports in this field has pushed Japan into third place in the league table with around 13 per cent of the world market behind the U.S. and West Germany.
There is certainly no shortage

of industry-based explanations for the relative performance of the UK industry—or suggestions for improving per-

formance.
Mr. Gilbert Simm, managing director of Tirfor, the Sheffield-based lifting equipment manu-Industry. recognises the facturers who is also chairman importance of exports since the UK market on its own is of the Federation of Manufacturers of Construction Equip-

to the buyers unfortunate preference for price before quality. Similarly Simon, which has based its management philosophy on "absolute reliance on safety and reliability" echoes the need for purchasers to consider other factors including safety when buying equipment.

buying equipment. The company, as with other major exporters within the industry, also stresses the urgent need for a rationalisation of international standards citing, by way of example, the

blames a number of factors for France weighs twice as much

verseas markets and the UK's of output per man, and improved stringent safety regulations in competitiveness which with which, while imposed on UK in part depend on new investigation in more efficient volume loopholes for imported goods."

Mr. Simm links these factors to the buyers unfortunate preference for price before that it can ride out the reception after the string of the preference for price before that it can ride out the reception after the string of the preference for price before that it can ride out the reception after the string of the processes. sion although inflation. (Be strength of Sterling, and the downgrading of investment plans in general must cause rests on the belief that the need for new or replacement mechanical handling products. has been maintained during previous downturns in econo activity—and may, therefore, be expected to continue to do so

Paul Taylor

UK LIFTING AND WINDING EQUIPMENT INDUSTRY INDICATORS (£m)

Total output	1975 102	1976 108	1977 113	1978_3 108 ^K
Experts per cent	53 (52)	53 (49)	53 (47)	48 (44)
Domestic consumption	84	98	101	96::
Imports per cent	35 (42)	43 (44)	41 (41)	36 (37)
World trade (approximate)	885	990	900	790
UK share (%)	6.0	5.9	6.4	6.1
Trade balance	+18	+10	+12	+12
Source: DoI ar	d trade :	statistics.		

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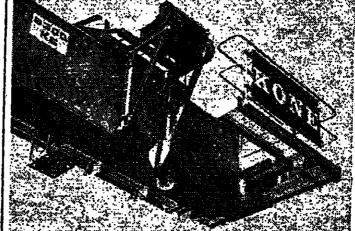
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Paul Taylo

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IN SERIES

Increasing importance of automatic assembly

FIFTEEN YEARS ago when considerably less. This would be in the forefront of will step it dead.

hard to think of more than two or three—find themselves confronted with American and European rivals that have estab-lished subsidiaries, licensees and agencies over here. Competition from Europe is keen — as exemplified by the challenge from Saiv, a subsidiary of rance's Renault in the motor

Such competition becomes all the more pronounced when, as now, volume industries making cars, cookers, refrigerators, washing machines and the often complex components that go into them are suffering recession. Still, with wages trying to keep up with inflation, auto-mation should offer some compensation. But the high cost of borrowing for an expenditure that could involve a modest component supplier in, say, £60,000 for a fairly simple installation, and up to £500,000 for a more sophisticated set-up. is a considerable deterrent to investment. So perhaps it is not altogether surprising that there should be a somewhat schizophrenic attitude among managements. To quote one manufacturer:

"Production engineers are tearing their hair trying to get an assembly line in. They know their management boards are being cautious about giving the employees. so shead. We've been waiting o years in some instances for This comment was echoed by

de in Britain is diabolical. reres our American parent is olling he the dozen we are

After depends on the paythree-years and quite often microprocessor controls.

automated assembly equipment seem to make the proposition automatic assembly is volume in significant quantity the UK But there are still many com-

Automation imposes much Today the very few indepenmore severe disciplines all dent UK companies still offering along the line. Tolerances have sistently accurate if the parts taps, examples that show the ously. This may need quite extensive redesigning or updating of machinery either at the supplier's end-or, if the parts are from an in-house source, within the manufacturing company itself.

Implications ...

Automatic assembly also imposes other disciplines by involving just about everyone in the manufacturing teamdesigners, suppliers, machine tool makers, production and quality engineers, personnel managers, shop stewards—in fact almost everyone except the operators, though here too there can be problems if labour has to be reduced. Indeed, the wider implications, as well as any problems, are almost certainly more evident to middle and lower management than they are to the board room, where the investment is likely to be seen primarily in more vital. financial terms. Can it be afforded and is it worth the risk of upsetting the unions?

The smaller and family-type concerns will view it in the more intimate terms of possible the benefits it can bring but lost jobs and perhaps redundanamong long-serving cies

assembly is becoming an increasingly important factor in the fight against inflation and trother who said: "The atti- the retention of markets in a period of declining world demand. It comes in several forms, from comparatively simple three-part rotary assemme 'f'er !? eyrs it makes bly tables for putting in aerosol valves, parts of a tyre pressure gauge, fuse caps and other small components to a food companies to look more retimers, are generally reti 4050 ft line with five to eight critically at their operating procent shout this but in many stations turning out a comases it appears to be two or pleted complex product by

The essential prerequisite for spread of installations. heads, shock absorbers, water check of individual parts with

began to appear over the horizon at least superficially attractive, production for without it the is done varies considerably, stations according to the num- have twice as many different installation cannot be kept fed depending on the application, was also getting off the starting ponent makers who employ for three-shift working, and but 40 assemblies a minute of But the engineering women part-time workers for while there is some flexibility a small component is not out of industries. were so slow in assembling small items. It is as between different models of the way. Larger and more comaccepting the technology that relatively inexpensive labour the same product, it is some plex components may take 5-12 stability mere desired. A substability mere dashed. A substability mere dashed. A subout faulty parts in time and
including some outstanding companies which had planned to an accumulated assembly line
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pumps and, more recently, perhaps a non-destructive or alternators. Elsewhere auto-leak test where appropriate. matic assembly is used in the The second is likely to be a The second is likely to be a automatic assembly lines—it is to be closer and more con-hard to think of more than two sistently accurate if the parts.

The distribution of light switches, bulk store of needed parts to der block. But all are likely to unloading and in maintenance ments, but the current indus. That's what it boils down to."

Deter Continued to think of more than two sistently accurate if the parts. work. The parts are then fed and bearings. Thus to cover the microprocessors will be

and presented to the assembly range of water pumps models ing" to a supervisory emputer

pump for a car, for example, together. has five or six parts. It will have a different pulley to suit different car models, and the casting is also likely to be dif- pletely automated factory in ferent to accommodate various which the main employment for methods of fixing to the cylin-humans will be in loading and

The speed at which assembly line, which may have several it will probably be necessary to which will be co-ordinating and ber of operations necessary to parts in the parts store as are complete the product, with a needed for a single model. These sign-off test facility at the end. variations can be encompassed, While the product may be of though it will entail more work the same type, it may be in on project engineering in the different sizes or have different drawing office to make certain fixing arrangements. A water all the different parts will fit

together. just this purpose, and the un-Microprocessor - controlled attended factory is likely to asembly lines take manufactur- become a fact within the next ing appreciably nearer the com- decade.

overseeing the total operation of machining, automatic tool changing, testing and inspection. The Japanese, Americans, Czechs and other are looking hard at the possibilities of putting together the various modules, or building blocks, for

The knowledge and experience exists in this country to

People are reluctant to make major investments of this kind before they can see light at the end of the economic tunnel more clearly, with the result that profit margins for makers of automated assembly equipment are apt to be slim.

Moreover, foreign competi-tion from Germany, France, America and elsewhere is expected to intensify over the next year or two while the recession lasts. manufacturer put it: "Really all we have to do is to get people keep pace with the develop- to have faith in this country.

Peter Cartwright

More efficiency in food processing

IMPROVED handling efficiency is likely to be given a higher priority by food manufacturers in the 1980s as the operating pressures on the industry continue to mount. Food processing has always been heavily dependent on good mechanical handling procedures, since it is a high-volume, lowmargin industry whereby any improvement in operating efficiency can reap dividends in

Nevertheless, - automatic

improved profit margins. But the growth of pressures on food manufacturers during the past decade has made such technical improvements in efficiency even On the one hnad, food manu-

facturers have been faced with soaring cost increases for raw materials, labour and energy. Yet, the ability of food companies to pass on these costs in the form of higher prices has ben hampered by two factors. One is the almost static level of volume demand for food which seems unlikely to show any real growth over the next few years. The second factor has been the ability of the major supermarket chains—who have been fighting a High Street price war-to food manufacturers who are anxious to manitain their production at the volume expense of their competitors.

These pressures have forced cedures in order to find extra costs savings. The supermarket

MECHANICAL the pressure on their own spacing them out sufficiently to vent the material flowing back. The target set by Bejam is two creasingly having to look overency is likely to margins from the price war to allow for efficient changes of can go up inclines of 70 degrees. to three weeks' stocks and a seas for new machinery to help gher priority by improve their own mechanical direction at a later stage.

When the Bournvita granules flexible pallet system that helps improve mechanical direction at a later stage. improve their own mechanical handling. The Asda superstores chain, for example, has been one of the pioneers of using caged pallets within its stores.

In the broadest sense, mechanical handling in the food industry encompasses all stages from the farm to the consumer. In these terms, the industry is one of the largest in the country and, as to be expected, there are as many different ways of meeting mechanical handling problems as there are com-

An example

One typical example of a mechanical handling develop-ment is at Pedigree Petfoods at Melton Mowbray in Leicestershire. The company last year installed a new conveyor installation which comprises a mixture of belt and gravity roller conveyors and incorporating a 180 degrees curved belt. The new installation forms the major part of a dry cat-food packaging line, forming the essential link between the carton filling and packaging machinery.

The three-metre-long belt conveyor carrying the cartons from the filling system is fitted with a pneumatic stop which acts as an accumulator should there be any minor hold-ups in the system. The cartons are then passed on to an accelerator belt

A case-packer leads to a palletising line, while from the shrink - wrap machine the system (from ' Bendvevor ' Sovex - Marshall) carries the cartons round a 180 degree bend to a coding station. Then they travel via belt and gravity roller conveyors to the palletising its load is emptied.

The "Bendveyor" is a curved belt conveyor which carries unit loads safely and securely around corners from 30 degrees to 180 degrees without interruption of flow or reduction in speed. A Pedigree Petfoods on the suit-ability of purchasing this products such as tea and coffee, machine was that otherwise up to three separate straight conveyors would have been needed.

Another food company using an unusual conveyor system is Cadbury - Schweppes' operation in Nigeria for transferring Bournvita from granlation to storage bins. The "Rolabelt" system used

(made by MJP Machinery of Altham) basically comprises a rubular track with a continuous belt running above. The belt, which is corrugated and semicircular in cross-section, is in modules of 333 mm supported and joined by cradles of a lightweight alloy. Each cradle has its own undercarriage.

The system can negotiate inclines up to 35 degrees in its vehicles a day means about 450 standard form and with the pallet loads to be seen in by five chains have also been forced by which shoots them forward, insertion of baffle plates to pre-checkers and warehousemen.

When the Bournvita granules are to be discharged at a predetermined point, a pneumatic arm is actuated with flexes a sprung steel rail running alongside the track, a form a type of cam. As each critale approaches the discharge area, it is progressively tilted sideways and

A prime example of mechanical handling in retail food distribution is given by the Bejam frozen food group. Bejam has more than 150 freezer food centres throughout the UK. It stocks more than 500 freezer plus approaching 30 different models of freezers.

Keeping some shoppers a week supplied with more than 2.25m packs of frozen grocery products imposes a substantial strain on Bejam's mechanical hnadling and distribution systems.

Freezer food centres south of the River Thames and across to Wales and the West are served. by a massive 34,000 cubic metres cold storage depot opened three years ago at Frimley, Surrey. This is unusual, in cold store terms, not just for its sheer size but in its us eof five levels of racking to pack as much as possible on to a given floor area.

An average of 22 incoming

to ensure that racking is used to full advantage. Identification tickets, for example, are used in a colour that is changed every month. These not only show the code number under which each pallet was checked in, as well as pack size and quantity, but also provide an immediate check on strict stock rotation.

Extra loads

Five or six Lansing Bagnell fork-lift trucks are kept busy almost continuously, serving a total of 3,860 pallet locations in seven double-sided and two single runs of racking. While two metre aisle widths would accommodate the trucks, allowance of a further 750 mm means that additional loads can be bulk-stored two abreast and five high in the aisles when required, using pallet convertors.

Operations are planned each day to minimise interference between the high-speed, highlifting reach trucks and the six stand-on pallet trucks used for picking up — all of which is from floor level, with back-up stocks in the upper tiers of racking.

Bejam has about £4m worth of industrial trucks and places almost total reliance on Lansing Bagnell models.

Yet, as a recent report by the National Economic Development Office made clear. British food manufacturers are inimprove mechanical handling. The report suggested that the evidence indicates that the major areas of technical weakness, in terms either of inferiority or absence of UK machinery, lie in the meat, brewing, soft drinks, biscuits,

chocolate, confectionery, ice cream, and oils and fats sectors. In margarine production, for example, the report says that machinery suppliers need "increasingly to be able to offer complete systems of machinery whether based on the use of the paper wrapper or the plastic tub." It adds that "a complete line, not an assortment of separate machines from different sources, is what the customer wants."

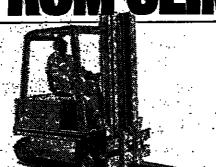
In the meat sector, the report points out that much of the primary processing is along a conveyor system. However, it discovered that processors preferred Scandinavian machinery because their equipment linked together to form an integrated and highly automated system.

"If British sources had been used the purchaser would have had to undertake the design and project management himthe report says.

The report recommends a much closer relationship at an early stage between food promachinery suppliers to belp develop UK chemical handling

David Churchill

W FROM CLIMAX NEW FROM CLIMAX I



THE FORK TRUCK THAT ANSWERS A DRIVER'S PRAYER

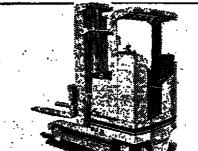
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COMPREHENSIVE RANGE OF MOVING MAST AND PANTOGRAPH REACH TRUCKS IN
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THE TRUCK THAT'S TEACHING

FACT: IN JULY 1979 CLIMAX INTRODUCED THEIR ENTIRELY NEW TOUGHTERRAIN 2,0.2,5 AND 3,0 TONNE ROUGHTERRAIN TRUCKS, ALL WITH TWO OR POUR WHEEL DRIVE.



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YOUR FINANCIAL DIRECTOR SPARE

FACT: IN SEPTEMBER 1979 CLIMAX INTRODUCED THEIR NEW TRANSAXLE ON THE BC 2.W
2.5 AND USE THE SAME COMPONENTS ON THE DA 2.0/2.5.

THE INTERCHANGEABILITY AND COMMONALITY OF MANY PARTS BETWEEN MODELS
MAKES CLIMAX TRUCKS A VERY ATTRACTIVE ECONOMIC PROPOSITION.

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Heavy reliance on imported machinery

EFFICIENT MECHANCIAL fication of brewers' efforts to or casks each in four main sizes lished Continental manufacturer to computer system with one in stream bottle filling machines handling of the materials and the materials are stream bottle filling machines and the materials are stream bottle filling machines and the materials are stream bottle filling machines are stream between the first filling machines are stream between the filling machines are str handling of the materials used in drink production is as imthe brewhouse, for example, kilderkins, 36 gallon barrels, machinery was increasingly
portant for Britain's beer, mash filters and "lauter tons" and 54 gallon bogsheads.

bought in preference to U.S. spirits, and soft drinks proa high volume and bulky operation, profit margins are tradi-

Unfortunately for British ever, UK drink producers dur- cylindrio-conical fermenting ves- container, compared with ing the 1970s were forced to sels, replacing the traditional look abroad for their materials square or horizontal ones. Since handling machinery to ensure lager production involves botthat costs were kept to a minimum and efficiency was maximised. In part, this reliance forced on the brewers, in par- allows the yeast to be separated ticular, by the rapid growth of demand for lager throughout

At the beginning, of the decade, lager accounted for

of all beer sold in Britain. ales which now take six days
This rapid swing to lager
led to a bunching of orders
for production vessels and UK
undertaken by the brewers in sources had been unable to the areas of packaging and other offer acceptable delivery times. But the problem with lager to be labour intensive. Substanproduction was that the production process also required tivity are also likely to be longer storage times—and sought in this area. therefore greater capital costs than for traditional beer

The lengthy process of lager ing and handling brewing - from malting to

HANDLING COSTS account.

for a significant proportion of

total operating costs i most

industries. The Department

of Industry is anxious to re-

duce the incidence of handling

costs without, in any way,

diminishing the value of the

goods produced, and from

time to time has tried to

divert the attention of industry towards the problem.

Materials handling was in-

cluded in the work of the

Committee for Industrial Technologies of the Dol.

which concentrated on three

main aspects: (a) identifica-

tion of the size of the prob-

improve materials handling. In -9 gallon firkins, 18 gallon turers of can fillers whose Laval from Sweden, Holvrieka supply all their equipment operation and one on per- which the first "all-British" spirits, and soft drinks pro- are being introduced which lead. Clearly, the larger-capacity equipment ducers as it is for the food to significant increases in the containers are the more Two West industry in general With such number of brews which can be economic in terms of container dominated the market for high-

development in lager equipment tom fermentation using yeast which sink to the bottom of the vessel, rather than rise to the on overseas machinery was surface, cylindrio-conical vessel out from the bottom.

Savings achieved by some lagers has been siginficant. In the 1960s, the process time

tial improvements in produc-

antly to the problems of packag-

bottling-has meant an intensi- the beer can be supplied in kegs subsequently three well-estab-

lem; (b) identification of the

handling improvement; (c)

through publications and con-

ferences, increasing mana-

gerial awareness of the

importance of good materials

bandling to manufacturing

A College Industry Commit-

tee for Material Handling

Education has been set up accordingly, while the Dol has directed a significant

amount of work through the

Handling, which has produced

a set of teachers' packages

while a national audio/visual

pertinent

knowledge '

materials

Materials

tionally low—thus making it aday are being achieved instead put on the filling lines. For example, the firkin is a widely-tive throughput of materials.

The intering process, 12 of ews of significant put on the filling lines. For example, the firkin is a widely-tive throughput of materials.

Perhaps the most significant used container size, but there is a drop in throughput of over engineering companies, how has been the introduction of 2,500 gallons an hour using this

barrels. nature of beer, and relatively slow throughput in many retail outlets, there is little that can be done to overcome this problem. The main feature, however, of the drinks sector's handling development has, as already mentioned, been the brewers in the process time for imports of foreign equipment. According to a recent National Economic Development Office just under 10 per cent of beer amounted to eight weeks from study, imports of packaging sales. But changing social brew house to packaging. Now machinery—mainty from West tastes and a succession of it is only two weeks for draught Germany, the U.S. and Belgium warm summers meant a dram- and three to four weeks for —have covered a wide range of atic surge in sales which now canned lagers. Similar improve- equipment. This includes highequipment. This includes highaccount for almost 30 per cent ments, in fact, also apply to keg speed bottling lines, high-speed of all beer sold in Britain. ales which now take six days can fillers, craters and decraters, palletisers depalletisers, case-conveying systems, plastiwrap systems,

and labelling machinery. According to NEDO, some 80 cent of beer on the Continent is bottled or canned The variety of types and sizes of containers adds significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and significantly to the problems of any sizes of containers and s and West Germany was the changed from bottles to cans, they purchased U.S. filling Apart from cans and bottles, machinery. But there were

> aids centre for teaching and training has been set up Materials Handling centre at

Cranfield.

In addition, several publications are available through HMSO, including "Materials Handling-an Introduction." which is the first of a series to include: "Mechanical Handling-a. System's Approach, for Senior Managers": "A Guide to Accountancy Prac-Storage of Bulk Solids." There is also MH Costs- A new look at manufacture.

Two West German companies speed labelling machinery, according to the report. For three UK suppliers, but their contract—worth some £5m—was supplied and installed by Alfamachinery was not capable of
operating at the high speeds—
order received in the UK by

800 to 1 200 muits per minute—

Alfa-Level and mass are supplied and installed by Alfabrewery Laval. At the new Vaux
brewery in Sunderland, for Vickers bought the engineer
Alfa-Level and mass are supplied and installed by Alfabrewery in Sunderland, for Vickers bought the engineercrating machinery there were 800 to 1,200 units per minuterequired.

major. Continental However, given the perishable machinery companies—who are much bigger than their British says Alfa-Laval, for companies pean brewery, involving a two-years, has been its "Silver,

The engineering work on the package. new Courage brewery at Reading was carried out by Alfa- the Courage brewery is con- pany on the bottling and can-Laval, for example. The Courage Alfa-Laval and was won after which Alfa-Laval are also innegotiations.

from Holland, Meura from needs to ensure mutually com- manent standby.

Belgium, Ziemen from West patible equipment and to Following the NEDO report, Germany, and Steineker, also receive delivery, installation, however, the drinks industry from West Germany.

and servicing all in the same has expressed increased willing.

ness to buy British where The equipment installed at possible. The major UK com-

as one of the most advanced around film. Vickers-Dawson's pean counterparts. There is a growing tendency, control systems, in any Euro-major seller in the past few.

fillers introduced on to the UK market. Vickers has also been successful with its mechanical decrating and re-crating machines

In the 1980s, therefore, the growing need for efficient protrolled by three mini-computers ning machinery side is the duction to keep costs down will provide plenty of opportunities; ing business of Dawson and meet the performance criteria; three years of intensive volved, there is what is claimed Barford in the early 1970s for and price levels of their Euro-

David Churchill

Popularity of pallet systems

THE GROWTH of GKN Chep's sector are from the pool. How cal problems of supply, often standard pallet and the heavy-national pallet pool over the ever, with around 40 to 50m among divisions of one company. duty product, allowing the

The company, a subsidiary of GKN (which holds a 70 per number of its pallets in circulacent share) and Brambles Industries of Australia (30 per 450,000 a year. cent), started operating in 1975 with the aim of winning industry over to the pooled pallet system such as that operated by Brambles in Australia.

Through a network of depots, customer companies are provided with the pallet service which allows them to hire and de-hire the campany's distinc-tive blue pallets, exchange them with other companies, or have other companies return them to

This straightforward system, which avoids losses and repair costs for pallets, was immediately popular with industry, particularly the food and drink sectors, where full use could be made of the pallet exchange facility.

As a result, the number of depots has now risen to 17 and now being used on a trial basis. around 2m pallets are now in circulation and capital invested, which began at £1m, has now thick steel plate welded on to risen to around £10m. Turnover a 4.5 mm steel base, with a of the company has risen to nominal capacity of 1 toune. around £6m a year and this is They are available in the same expected to reach £20m within two years.
The company rightly pre-

dicted that growth in the food director of the company, sees industry would be fastest, and the motor assembly industry as now estimated that 30 to 35 per a prime user of the product. cent of the pallets used in that since it is notable for the logisti-

past five years has been so fast pallets in use for all purposes BL has recently started using it is not surprising that the in the UK, the company has the containers, which cost company is widening its activi- great potential for expansion around £70 each to produce and ties both geographically and in and is now making it spresence come in two standard sizes. terms of products and services. felt more strongly in other Other clients include Autoindustries. It is adding to the

expansion plans, the company production system of one com-has now been split into two pany or division, and then go divisions, the first dealing with its standard 1,000 by 1,200 mm four-way-entry standard wooden believes that many engineering pallets, and half pallets, while companies suffer from unnecesthe new division is dealing with sarily complicated or inefficient palelt cages and the new heavy systems of storing and moving duty containers.

New target

With around 700 clients nationally, including some of the biggest food companies, such as Spillers, Nestle, Tate and Lyle and Brooke Bond Oxo, Chep is now looking for a faster rate of expansion in the engineering industry and its steel heavy duty container aimed at that market. It is

The container, also painted blue, is formed out of 3 mm thick steel plate welded on to way as palets and the system will operate similarly.

Mr. Peter Williams, managing

motive Products, David Brown and Birmid Oualcast.

The intended advantage of the system is that it allows the To meet the demands of its containers to pass through the on to another, where they can be used similarly. Mr. Williams parts, which are often expensive in terms of management.

Another problem which often arises is friction between suppliers and customers over the return of containers when they are in short supply, particularly in the case of long-distance dis-

" What we want to do is bring order and discipline to what is normally a disorderly procedure." Mr. Williams says. He believes companies will value having a reliable supply of good quality containers. Chep has also introduced a

pallet cage system, which again operates in the same way to provide a purpose-built mesh-sided container for loads which cannot be stacked on pallets, again of particular interest to a wide range of manufacturing

industry.
Although they are obviously limited in terms of strength, Having moved into profit-they fill the gap between the ability after only two years of limited in terms of strength,

company to offer some form of product for a very wide range of manufacturing activity.

The company has also worked hard at filling the gaps geo-graphically, and its depots now include two in the south-east, Birmingham, Bristol, two in the East Midlands, Manchester, Carnforth, Leeds, Gateshead, Glasgow, Belfast and two in

Expansion

But more significantly, there has been notable expansion within Europe, allowing UK customers to hire in Britain and de-hire in a number of Continental countries. Overall. the system (in various forms of ownership) is operating in Australia, New Zealand, South Africa, Britain, Ireland, Belgium, Holland, Canada and France. Negotiations are now taking place to introduce the system in the U.S.

Chep Europ was established in 1978 as a three-way equal partnership between the industrial investment arm of the Banque Bruxelles Lambert, GKN and Brambles Industries of Australia, and operates the companies in Holland, Belgium and France.

There are now 33 depots in Europe, which include five in the Benelux countries and 11 in France, where full operations have started recently after an investment of £4.5m.

operation and established a viable base within the food and drink industry, GKN Chep is therefore firmly based for expansion in a number of directions, although always related by the network of pool.

Areas of fairly rapid expansion are seen as the chemicals industry, and support industries, such as suppliers of containers, bottles, lids and all forms of packaging, where the pallet cage is proving successful Mr. Williams claims that the

Chep system has provided customers with an average reduction in costs, in relation to the type of product hired of 30 per cent, while his com-pany is benefitting now from the higher level of activity without great additional capital

An early constraint on the company's growth was lack of skilled personnel, who have had to be trained within the company since there is no other choice, but the number employed in the UK has now risen to around 300 and that problem has been largely over-

Having successfully achieved phase one of its objective, GRN Chep is now confident that if its new ventures prove equally sound it will be able to invest in even more products and services in the support of industry. Its horizons are clearly wide and if the wide. spread activities of Brambles in Australia are anything to go by growth could be rapid.

Lorne Barling

NCE YOU'VE GOT IT RIGHT, WHY CHANGE IT?"

The new Lansing FRER 9/1.5 - 2.0 reach truck

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Overall length: 1725mm (67%") 1855mm (73")

Stacking aisles: Pallet size: 800mm (32") | 1000mm (40") | 1200mm (48") Aisle width: 1875mm (75") | 2075mm (83") | 2275mm (91") 1955mm (78") | 2155mm (86") | 2355mm (94")

Max.lift heights: 6300mm (248") 8900mm (351")

BASIC DATA: 1.5 tonne model (2.0 tonne model in bold)

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Down to one cigar a week

A FORTNIGHT ago the Cuban misadventure as Cuban refuseres and roughing them up, price is 10 times that. Last Government claimed that 51m gees in a bus crashed their way it is an unedifying sight which Saturday I saw a smallholder than the cuban Caparament no solling his hears to an eager propulation of the island, had poured into the streets of cities President Carter. Allowing for some official exaggeration about. the numbers and the likelihood that many turned out for fun rather than politics or because to make an appearance, it showed that 21 years after his revolution the Cuban president ted. can command the loyalty or obedience of a large section of the population of his country despite all its present difficulties.

1980

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Le-Clathin

To the outside world the fact that 10,386 people last month voted with their feet and sought to leave Cubs by seeking asylum in the Peruvian Embassy in Havana is intriguing. But it would be unrealistic to forget that President Castro has millions of vociferous sup-forters on the island. He is #850 Commander-in-Chief, his younger brother Raul is Defence Minister and executive dead of the armed forces and, as far as the visitor can see. mere is no organised challenge to this rule. The Cuban Comminist Party, after all, is the only authorised political party of the island and the Govern-

gient keeps a tight control on the media. Marxism Leninism is the norm. The debate in Cuba today is fot about whether Castro is in nger of being toppled but the slibiter one about what is or should be the exact degree of support he can count on.

If is the accepted wisdom among foreign observers in resent those who want to leave obtainable at much higher haven that the Cuban decision as "scum," traitors, the con- prices, from state shops, the lift the guards from the Peruvian Embassy was taken By President Castro himself in a fit of impatience with goings-

at the mission. A Cuban

policeman had been killed by

people; more than half the in Some add that if the Cuban does the Cuban Government no selling his beans to an eager leader had bad Sr. Carlos credit. Rafael Rodriguez at his side, . The deeper political reason- Havana suburb at 1 peso 50c afficiowns the length of Cuba to he would not have taken such ing for allowing Cubans to quit (nearly \$1).

demonstrate in favour of Presi a decision. Sr. Rodriguez, a Cuba takes into account the Extra cigs dent. Fidel Castro and against powerful and astute politician country's ailing economy. Sugar, and officially available at three and a vice-president, happened the principal export, has been times the ration price of around to be on a visit to Moscow at severely damaged by disease, as 40p. The free market and the time. Most agree that the has tobacco, and there has been rationed prices of a gallon of weight of people who swarmed their way under the wing of the they thought it imprudent not Peruvian Government was several times the number that the Cuban Government had expec-

an outbreak of swine fever.

crowd of housewives in

Extra cigarettes are freely petrol are roughly comparable More worrying still is the fact to those of a packet of cigarthat the level of productivity is ettes. A Cuban lucky enough to much lower than it should be, have a private car can expect although the Soviet Union is a ration of about 10 gallons of ed. supplying raw materials such petrol every month. Food is At the same time, it is as oil, and capital equipment very often available at work-

places cheaply. The young, the

pregnant, nursing mothers and the army get better food.

ance than they were two years

women's clothing after the

infinitely drab days of the

1970s. Refrigerators and domes-

tic gadgets are often delivered

allocated to those whom the

workforce deems to have been

factories and offices to be

ago. The starting-up of new

Clothes and many consumer

is being raised to 91 pesos (£57.25) but the same housewife commented to me that her husband was bringing in no more than 75 pesos a month.

Though consumption of some

items, such as clothing, is rising, the average standard of living cannot compare, for instance, with that of the inhabitants of Miami. And the average Miamian of Cuban descent has been an increasingly frequent visitor to Cuba in recent years.

Because the economic gan between the average Cuban and Miamian is so great, it has become imperative for the Castro Government to meet rising expectations at home or allow the discontented Cubans to leave the island.

The process of pushing up

productivity and increasing pro-

duction has meant in recent months several moves to increase incentives to workers on the shop floor, in offices or on the farms. Earlier this month Government announced durables are in greater abund- the with much flourish that smallholders would have facilities to market their privately grown food in Havana, thus copying the peasant markets already widely instituted in Eastern Europe. This could greatly increase the supply of food to the capital while at the same time cutting the ground from under the feet of the black marketeers.

> At least as important, higher "responsibility" payments and gradines are being introduced for workers. One journalist told me in Havana: "Now there will be three grades of journalist: A, B and C. With all on one grade, those who really worked, took responsibility, ran the risk of censure when things went wrong, and were dissatisfied when they earned no more than the drifters. Now with the grading system the harder

Bakers, Food and

Association lunch, London.

Dorchester

Major Disaster

Olympia

Warrant

The minimum monthly wage there will be facilities for

When I asked a supermarket manager whether the new incentive systems meant a move away from the goal of achieving Communism he replied: "No, I think it's a good idea. After all they have it in Eastern Europe, don't they?'

At the luxury end of the consumer market the shops selling goods for foreign currency seem to be expanding greatly, presumably absorbing the new flush of dollars coming to Cuba from Cuban exiles and emigrants visiting from Florida. For instance, while the

National shop at the Hayana Libre Hotel in the Cuban capital has a small selection of rums and Skanderbeu Albanian cognac, many brands fo whiskies and other Western brews are available for hard currency at the International shop at the other end of the hotel. Outside, having no dollars-only sterling -on me, I was obliged the other day to queue for a local taxi: hire cars are reserved for those with U.S. currency.

But it will be many months before living conditions get better in Cuba and for the moment, faced with austerity and one party rule, hundreds of thousands of Cubans obviously want to sacrifice the familiarity of their native land and all their possessions except the clothes they stand up in and opt for exile..

The riots in Miami do not appear to have put off many of those who believe, from their own fading memories of the city or reports of visitors or the constant lure of the U.S. radio, that Florida is carpeted with gold.

Since access to the Peruvian embassy is blocked and those who do choose to emigrate are being subjected to a highly concentrated propaganda campaign, the indications are that the workers will get more recog-Cuban Government had under-nition. And most important, estimated the number of those

Making the celebrated Havana cigar. Disease has damaged the tobacco crop.

who wanted to leave and is seeking once again to limit the flow

emigrants. Speculation in Havana puts the number of those who want quit at around 250,000, say 21 per cent of the population. Some estimates put the number substantially higher.

It was planned to drain off malcontents and those unreconciled to the revolution so as to leave the island an ideologically purer place. The draining operais bigger and more farreaching than the Government perhaps had thought.

The question remains about guarantees his populat how much the flight of perhaps a level of consumption.

hundreds of thousands of refugees will affect the international standing of President Castro in Latin America and the rest of the Third World. The answer may be: not as much as Western observers think.

After all, for many millions in the Third World assured weekly rations of rice and beans at cheap prices and a cigar, however spasmodically delivered, would be a vast improvement on their standards of living at present. They might not therefore be too easily disposed to criticise a political leader who guarantees his population such

Speculation in Havana puts the number of those who want to quit Cuba at around 250,000.

reported from a number of to the value of perhaps \$3bn sources in Havana that Presi- a year.

Sources in Havana that Presi- a year.

In such an economic atmobeen preparing an operation which would rid the country of those who were lukewarm or hostile to the revolution. Cuban leader is not unlike that health care—things millions of of Shakespeare's Henry V Latin Americans lack Luxuries before the battle of Agincourt. are still difficult to come by. As Castro continues his twodecade-old battle with the U.S. and in favour of what he sees to be the interests of the densed milk, and small alloca-

to this fight.

cious or unconcious tools of imperialism and very possibly homosexuals. In its verbal and physical forms, which somepotential refugees through the cents (11p), the black market month on a tiny flat.

H. N. Raine.

vations

76; Portland Place, W1.

malaise

Machine tool

sphere the possibilities for increased consumption are not good. The ordinary Cuban today enjoys an assured, regular but The public attitude of the monotonous diet and adequate But rations for a working adult include 11 lb of beans a month, 5 lb of rice, six tins of condeveloping world, he appears tions of meat, oil and cooking to be saying:

fat. One packet of cigarettes a "He which hath no stomach week is also available on ration, and men are also entitled to one

Let him depart; his passport cigar.

shall be made."

The prices of these goods
This stance is being backed are kept low and stable. Over up by an incessant propaganda and above the rationed alloca-campaign which seeks to repblack market or the increasing number of markets for rural smallholders' produce.

Whereas the price of a pound times involve gangs chasing of beans on the ration is 18 spent no more than £5.40 a

most deserving. With much fat. One packet of cigarettes a shipped off to Eastern Europe. citrus fruit is comparatively rare and some claim that the rigar ration has not been honoured in recent months because of the tobacco blight, and consequent cigar shortage. Housing is the Achilles beel

the Cuban planners with thousands of families having to make do with one room each in cities such as Havana. But rents are low: one Cuban housewife told me her family of three

GENERAL

U.K.: Post Office Engineering Union conference opens, Black-pool (to June 7).

Birmingham (to June 7). British hospitals and medical exhibition opens, Olympia, (to

June 6). Sir Peter Gadsden, Lord International drop forgers con-Mayor of London, attends Royal Holders' Association vention opens, London (to June

winding international

addresses United Nations Educa-Organisation, Paris.

ference on world banking opens, Singapore.

President Valery Giscard d'Estaing of France starts two-day official visit to Finland.

Mr. Saburo Okita, Japanese

to Jordan, meets King Hussein and Mr. Sharif Abdel-Hamid Sharaf, Prime Minister, in Amman, to discuss bilateral economic co-operation.

ing into abortive U.S. raid to free hostages, Tehran (to June 5). PARLIAMENTARY BUSINESS

House of Lords: Alexandra Park and Palace Bill, third reading. Social Security (No. 2) Bill, second reading. Debate on the

See Financial Diary on Page 25.

Letters to the Editor

Training of -technicians Erom the Chairman, Technician

Education Council Sir.-The Report of the Cenfiral Policy Review Staff on Education, Training and Industrial Performance, is both welcome and timely. If tackles a vital area of our industrial life and boints to some decisions that need taking now. I hope that although we as a nation have an ability to talk about the merits of closing stable doors long after all the useful houses have bolted, on this occasion we

Technician education, for which the Technician Education Council (TEC) is responsible, suffers from the fact that much of the educational establishment, professional institutions and even society itself, regard education as a technician as second best always inferior to taking a degree course, regard

degree is industrially relevant or not. The current shortage of technicians can only get worse so long as this bias continues. Therefore, I am very glad to see, the effort that ministers are putting into supporting TEC in the work of trying to match the education and training of technicians to both current and future industrial needs. TEC was set up seven years ago by the Government as the

responsible national body for responsible national body for technician education in England. Wales and Northern treland (Scotland, being different, has SCOTEC). There are now about 140,000 students following the students of the students. now about 140,000 students following more than 2,500 TEC courses in about 450 colleges. From the start TEC decided on innovation and developed schemes of study based on units, or medules, of knowledge and a system of student assessment much skip in that used in the ıd main much akin to that used in the symed forces. With a core of standard units in any particular decipate, other special units can be added and changes readily made to meet the dereloping needs of an industry or firm. The continuous assessment, principle and unit examination "big bang" examination at the inring industries end of a course gives more chance of a student being competent. The Certificate that the student gains on completion precisely describes in what areas he or she is qualified. The flexibility of the system enables new technological needs to be met very quickly. The new Micro electronics units we have recently developed in a few months on the initiative of government and the work now going on in new concepts of industrial design are cases in-

point. During all its development work TEC has been carefully negotiating bridges with professional and certificating bodies, the CNAA and universities, so that technicians can have a route through to professional status. However, as the Report points out, with the best will in the world; evolutionary change necessarily takes time. For the necessarily takes time. For the first four Agree be another partner's turn to be another partner's turn

training throughout a technicians's career. It may well be that "Open Tech' as has already been pro- tin prices satisfactory to both posed would in the end be an producers and consumers, it has rule to the effect that no EEC Justee House, essential aid to keeping techni-

cians up to date.

While much has been done, operation than other commodity Budget, in any year, more than we have yet to deliver the full arrangements which had much say 105-110 per cent of what it

of technician educa- shorter lives. tion in this country, and I re- While I can claim no detailed turn to the point that a change knowledge of current negotiais needed in the regard given by tions, the proposed American plan as outlined in your report the community to vocational careers. The Report's value is would introduce a weakness that while it points out that which at the other end of the governments cannot directly price range is the defect of all make the changes necessary, the post-war agreements and there are areas which we should which on occasions has rendered all be thinking about. A most the ITC powerless to exercise useful contribution has been any effective control. made-by-this Report

This defect is the inability to take any further action to influence price levels when the price exceeds the currnt ceilings and the Buffer Stock Manager has exhausted his stock of need for an adequate but not excessive buffer stock as suggested by the mediators from From the Secretary, The Machine Tool Trades Association the EEC.

If the Tin Council lost the Sir,—With reference to your power to impose export control recent article "Aid to Machine at or near to the floor price, it at or near to the floor price, it is easy to envisage a situation Tool Industry Criticised" (May second best, always inferior to 25), and your editorial comment during a depression when all taking a degree rourse, regard—this morning "The Trouble is available funds to buy stockless of whether a particular Lack of Skill" (May 29), we piled tin had been exhausted. would make the following obser-Prior to this happening, it is highly likely that speculative To attribute the current activity would have had the malaise affecting certain sectors effect of depressing the price of the machine tool industry to even further. Without the 2 shortage of skills and the power to impose export control quality of training is not only the ITC would have no cards simplistic in its analysis but is left to play and the tin industry quoting, out of context, the would be at the mercy of National Institute of Economic market forces. History has and Social Research report on shown that because of its which both your articles are peculiar structure and economic behaviour that situation has not Further, the implication in been in the best long-term inyour comment this morning terest of either producers, procould lead your readers to cessor or consumer. If the U.S. believe that the UK machine negotiators insist on the

> ing system which in some as a weapon in the council's mysterious way is peculiar to armoury there need to be two itself, and operated in isola-conditions. tion from the nationally recog-nised and accepted system of training controlled and moni-First, all sales of U.S. stockpiled tin should be regulated tored by the Engineering Treasury should underwrite a industry Training Board. This, supplementary Buffer Stock of course, is not the case that in the event of funds being As you rightly point out, the UK machine tool industry exhausted interest-free loans are available to any extent

tool industry operates a train- elimination of Export Control

"occupies a key place in the manufacturing process." What has not been recognised is the fact that the training given by the machine tool industry is of a response to the U.S. request to very high skill content and is We concur with your com-ment that the training system Geoffrey Bodkin. Magpie Holt, High Broom Lane. is in need of change, and would add that this association is Crowborough, Susser.

EEC Budget Finniston Report V. W. Slinn, 62 Bayswater Road, W2 tactics

closely involved in both the

review of the 1973 Employment

and Training Act and the

Tin price

disagreements

Sir,-In your issue of May 29

you report on the breakdown of

negotiations at the UNCTAD

Conference to review the current (Fifth) International

From Mr. G. T. Bodkin

Tin Agreement

ment to an end.

From Mr. J. M. Tennent Sir.—Surely the British Government is approaching the addition of "Jewish leprenegotiations with its EEC part-chaun." I find the implications ners, for an equitable settle- in Mr. Healey's comments most ment of the "UK Contribution," distasteful, and am caused to the wrong way ...

Conference to review the special terms for the UK, how any public international ever justifiable they may be. Today it is the UK which is those who opinions. country which declined to par- the years to come it could well

It would surely pay a handsome really capable of skilful diplo-While only partially success dividend in this instance. Ac- macy if he is unable to do the ful in its objective to achieve cordingly; Britain should pro- same. pose the adoption of a new basic Ivor Goodman, weathered many storms and is member would be required to Enfield Street, certainly more sophisticated in contribute to the Community Leeds.

received from the Community Budget in that year. An appro priate "rebate" would be passed (which, conceivably could give rise to a second "rebate" de-

nending upon the incidence of sharing out the cost of the first). Such a simple new basic rule would automatically take care of inflation and it would put an immediate stop to arguments about whether any present concession for the UK should last for one, three or what number of years. But, above all, it should make all EEC members equally interested since, in the fulness of time, each could bene-

fit therefrom. '. Tencent Prendon Clase. cher, Surrey.

Exhaustive

measures

From Mr. M. D. McCarthy.

Sir,-Mr. Albery's suggestions (May 28) regarding positioning of exhaust pipes are surely not terribly practical, since there would no doubt be numerous cases of asphyxiation in traffic queues, as exhaust would pour into motor-cars, and it would be very difficult to extract. However, whoy not copy the

Americans and have the tail pipes pointing to the ground, thus leaving a great deal of exhaust residue on the road, and not dispersing a fine spray of obnoxious gases directly into the air. This same process may also reduce noise levels, if only slightly, as the road would abosrb some of the sound. M. D. McCarthy. Knoll Farm, Daisy Green, Wickham Skeith, Nr. Eye, Suffolk.

Politics or prejudice? It seems hardly likely that such conditions would be acceptable but it is a logical Ivor Goodman.

Sir,-Reading recently (May

fundamentally the 23) of the comments of Mr. nature of the International Tin Denis Healey at the national industrial conference of the Electrical and Plumbing Trades Union, I found myself amazed that Mr. Healey felt is necessary to refer to the "half-baked halfunderstood theories of that Jewish leprechaun Milton Friedman."

Whilst Mr. Healey may feel that the theories of that gentleman are "balf-baked and also half-understood," I am unable to find that the cause of rational debate on them is aided by the wonder whether a former It merely antagonises all our Chancellor of the Exchequer partners, the French in particu- and possible future Prime Minislar, for us to be demanding ter is a suitable candidate for any public office if he feels the need to attack the religion of those who do not share his

Whilst I have not, like many

Today's Events

attends Consolidated Goldfields reception, 49 Moorgate; dines exhibition opens, with Distillers Company, Man-Centre (to June 4). Workers annual conference opens, Skegness (to June 4).

Mr. Peter Matthews, Chief Constable of Surrey, chairs International T.T. motorcycle races, Isle of Man (to June 6). Symposium, International Materials Handing Exhibition opens, NEC, Lord McGregor of Durris.

Advertising Standards Authority chairman, speaks at Advertising

Overseas: Pope John Paul

tional Scientific and Cultural Financial Times two-day con-

President

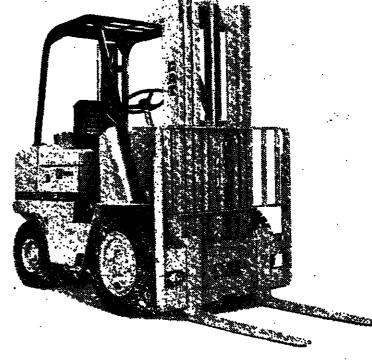
Foreign Minister, on official visit

International conference look-

House of Commons: Finance Bill, committee stage.

Government's policy on the Moscow Olympic Games. COMPANY MEETINGS

Caterpillar Value The new V Series C. It can save for you in four important ways.



engine is smooth, responsive and efficient . . . an advanced combustion chamber mixes fuel and air more efficiently for increased work per eallon. Slower fuel burning

SAVINGS WHEN WORKING-The Perkins 4.1302 4-cylinder diesel



reduces the rate of heat release for lower maximum cylinder pressures and temperatures. Noise levels are reduced. Reliability increased. Saves on fuel costś...

SAVINGS FROM STRENGTH—The frame is welded into box sections from 13mm steel plate - unitized construction keeps frame and components aligned and protected. The most is mounted to the frame so load shocks and lift stress are



absorbed by the frame - not the drive axie. The totally-sealed hydrostatic transmission has no rears or clutches to wear and features a sealed, independent oil supply with its own filter and cooler. Permanently adjusted tie rods keep wheels aliened, so steer tyres last longer. Long life saves downtime costs...

ing the mast. A universal joint between drive axle and transmission means components are easy to remove. Shorter service

SAVINGS FROM COMFORT - Easy to get on and off - comfortable to operate. Clear access from the left or right. The operator is positioned for efficient control of all work functions. Right hand, short throw

SAVINGS WHEN SERVICING—Immediate access for maintenance: the

hinged side panels and engine cover open wide, the floor plate lifts up,



hydraulic controls improve load control, reduce handling effort. An optional sound suppression kit can further reduce poise. Less operator fatigue saves costs.

Examine the Cat V30-50C Series before you make your next lift truck purchase—it could mean extra savings, extra reliability. All Caterpillar lift trucks are supported by the Caterpillar dealer in your area, so parts and servicing are never far away.

Caterpillar, Cat and III are Trademarks of Caterpillar Tractor Co. V30-50C Series Lift Trucks

Eagle Energy and Resources (Oil and Gas). English Assoc.

Duncan and

Goodricke

questioned

chairman of Walter Duncan and

non-executive director because

of alleged conflicts of interest in the group's complex share-

holding structure. The chairman, Mr. Michael Butterwick, said he

did not think it would be in the company's best interests to do

The same private shareholder

asked why 1878 had been exten-sively restated in the 1979 accounts. The chairman said it

was "quite normal for adjust-ments, from time to time, to be

chief accountant, Mr. P. M. Travers, added that he con-

sidered some of the entries in the 1978 accounts were

Among many other questions,

the shareholder asked why the company gave no details of its property holdings and why no

market valuation had been placed on a major warehouse in Banbury. Other shareholders also

urged the company to place a value on the warehouse. A representative of the company's auditors, Ernst and Whinney.

replied that the directors had

considerable leeway in deciding

whether or not to revalue pro-

The shareholder referred re-

Mr. Fox, who has a substantial interest in Walter Duncan through a company called

Camelia Investments, told the shareholder: "I don't fee! that I have to discuss my family

Shareholders voted over-whelmingly in favour of all resolutions at the meeting.

Profits of Davenport Knitwear

for 1979 rose from £700,297 to

£807,371, before a tax charge of

At the interim stage the pre-

Dividend for the year is raised

EXETER BUILDING

Shares of Exeter Bullding and Construction Group rose to 128p last week in dealings under rule 163 (2) of the Stock Exchange.

Milton Mortimer placed 5.500 existing shares and 49.560 new shares, about 10 per cent of the

total capital, with their clients and institutions at 126p a share.

1980 P
High Low
228 203 Banco Bilbso
226 217 Banco Centrel
220 203 Banco Exterior ...
228 200 Banco Hispano ...
137 122 Banco Ind. Cat. ...
175 141 Banco Madrid
174 237 Banco Santander ...
180 140 Banco Urquijo
238 208 Banco Vizcaye ...
190 75 Dragedos
195 23 53 Espanola Zinc

Petroleos Petrolibe

120 100.7

Wednesday, stockbrokers

affairs with you."

Davenport

Knitwear

£463.844 (£350,971).

and the company's new

Holders

Limited (Textiles).

Sears hopes for retail lift later this year

to be harder than the last one, warns Mr. Leonard Sainer, chairman of Sears Holdings, in his annual statement. But he hopes the final outcome will be helped by an increase in retailing activity later in the period and an improved position in the engineering division.

It is too early to predict the outcome and so much of the result is dependent on the retailing sector in the last quarter. However, he is confident of the long term future of the group as a whole and its ability to grow and prosper.

The group is financially sound and will use the temporary lul to consolidate its position for the next stage of development The policy to expand oversea continues but, apart from small acquisitions, no suitable business has yet been found.

Pre-tax profits for the year to anuary 31, 1980, were marhigher at £92.78m (592.04m), as known.

The chairman says the cost of department stores causes the group especial concern at present, particularly the additional fixed costs such as general rates which are increasing at alarming rates.

There are indications that demand for the group's fashion merchandise is rising. However, while consumer spending is held back trading is bound to be increasingly difficult and operating expenses are being reduced in line with the level of business

Fashion Wallis Group. acquired in January, suffered a sbarp downturn in demand in 1979/80 and it will be some time before a full recovery can be effected, the chairman says.

On the footwear retailing and manufacturing side, he says there are signs of some price resistance but leather prices have steadied. This means the rise in leather footwear prices should moderate, at least in the

The engineering division incured trading losses of £6.01m

BOARD MEETINGS

The following companies have notified dates of Board meetings to the Stock Exchange. Such meetings are usually held for the purpose of considering dividends. Official indications are not evailable as to whether dividends are intenting or finals and the subdivisions shown below are based magnly on last year's timetable.

TEMAY

TODAY Interios: Marley, Martin, The News-Finals—Percy Bilton, Century Oils East Midland Allied Press, Frank G. Gates, Govett European Trust, Mari-

3	FULUKE DATES	
•	interims—	
	Grootylei Proprietary Mines June 13	
đ	Hardy and Hansons June 26	
И	Marievale Cons. Mines June 13	
	Finals—	
ı	Bishop's Stores June 6	
t.	pranch a drains with a	
S	Finlay (James) June 12	
	Ocean WilsonsJune 10	
U	Property Holding & Invest: Tst. July 1	
8	Wigfall (Hanty) June 5	
_		

last year, against profits of 20.38m, but he hopes it will start to show improved results with new policies and changes in

management.
Group current assets were up from £301.01m to £359.31m at the year-end, of which shortterm deposits and cash totalled £52.91m (£51.26m). Current liabilities were higher at £212.7m drafts up from £7.95m to £13.3m. Working capital increased by £19.79m (£25.34m) during the

auditors, Price Water house, again point out that the group's bases of stating stocks and work in progress represent departures from SSAP 9

Meeting, Selfridge Hotel, W, on June 24 at noon.

FT Share Information

The following securities have been added to the Share Information Service appearing in the Financial Times: peatedly to the interests of Mr. G. Fox, a director, in the group. Canadian Pacific Enterprises (Section: Canadians). Double



United Mizrahi International Investments N.V.

U.S.\$ 10,000,000 Floating Rate Notes 1983 unconditionally guaranteed by

United Mizrahi Bank Limited

In accordance with the provisions of the Notes notice is hereby given that for the six-month Interest Period from May 29, 1980 to November 28, 1980 the Notes will carry an Interest Rate of 1014% per annum.

The Agent: CREAFIN S.A., Zollikerstrasse 181, 8034 Zurich

Cafetero Finance Corporation

U.S. \$30,000,000 Guaranteed Floating Rate Notes 1985

Unconditionally and irrevocably guaranteed by

Banco Cafetero

In accordance with the provisions of the Notes, notice is hereby given that for the six months period 2nd June to 2nd December, 1980, the Notes will carry a Rate of Interest of 10%% perannum with a coupon amount of U.S. \$52.42.

Agent Bank

CHEMICALBANK INTERNATIONAL LIMITED

50p sale offer puts £11m tag on S. W. Consolidated

BY PAUL CHEESERIGHT

Amer. Bond and Share South West (Trusts — Finance, Lionel Corporation Minerals, the wholly owned sub- (3). sidiary of Dundonian, is offering Americans), Warrior Resources 5.5m shares for sale at 50p each. (Oil and Gas). Yorklyde The proceeds of £2.75m will be used for mineral exploration and development in south west Eng-

This is thought to be the first significant metals exploration share offer this century. It will place 25 per cent of SWCM in public hands and give the company a market valuation of

The issue is being underwritten by Rowe Rudd, the London stock-brokers making the offer, as far SHAREHOLDERS subjected the as 4.4m shares are concerned. Goodricke to a barrage of ques-tions at the lengthy annual meeting. One shareholder also pressed the company to appoint Dundonian itself is underwriting the remainder. Application list opens on June 5.

The prospectus shows that SWCM has entered a joint venture with Amex, the diversified U.S. group which is already engaged on an exploration pro-ject outside Plymouth with Hemerdon Mining and Smelting. But this applies to only part of the SWCM properties.

SWCM has exploration licences for 3.200 acres near Callington in Cornwall and for a further 90 acres near Gunnislake, a few miles further east. The licences cover areas of known mineralisation and there were operating mines in the area until the late-19th century.

According Research International, the con-sultants supervising exploration and testing, results so far sug-gest inferred ore reserves of 2m tonnes with the potential for greater tonnages. Ore grades have been working out at more than I per cent tin and tungsten with quantities of silver.

But exploration work so far has not provided sufficient or precise enough information to state that mines will be developed. It is this uncertainty makes the share offer speculative and explains why trading will be carried out

Consolidated under Stock Exchange Rule 163 profit of £172,818 in 1979, on

A decision on production from at least some part of the Callington property will be made within two years, according to Mr. Max 50 shares. Lewinsohn, the Dundonian chairman.

On the most optimistic reckoning the Callington property could support three mines, one of them in the Amax joint venture area, producing around 3,000 tonnes a year with a breakeven point of about £5,000 a tonze, or £2,500 less than prevailing market levels. Such production would be roughly equal to the combined output of the two main producing Cornish tin mines, South

Crofty and Geevor, So far about £1m has been spent on exploration and the funds raised by the share offer will be sufficient to finance SWCM's work on its exclusive part of the property. The joint venture with Amaz provides for the latter to meet all exploration costs in return for a 50 per cent interest.

A decision to mine on the joint venture part of the pro-perty would mean either that both companies contribute equally to the capital costs or that SWCM would call on Amax to meet all expenses, in which case its share would be diluted to 15 per cent.

If mines are developed at

Callington, then SWCM may need to raise capital of £12m-£15m, in which case it might return to the market with another share offer. Lex, Back Page

D. M. LANCASTER Dealings in the shares of D. M. Lancaster are to begin today on the Stock Exchange following completion of a reverse takeover by tour operator, Club 18-30. The shares of the textile

nurnover of £4.7m. Lancaster's figures were £15,000 and £187,000 respectively. Following the takeover, capital consisted of 9.84m

looks for more growth

ALTHOUGH Mr. W. G. Turriff, chairman of Turriff Corporation any reasonable indication of the profit out-turn for 1980, he hopes the group will be able to achieve further improvement.

He says in his annual review that overall the domestic order book is greater than at the same certain sectors is still under employed, particularly in the ngineering and pipeline section, although there are hopes of an upturn in the remainder of the

In general conditions are very competitive, he states, but the service, plant time and property interests should do well.

Overseas activity is at a low ebb: "We continue to bid for selected projects in which have particular expertise only to be outbid by uneconomic

margins," he explains.
As reported on May 1, taxable profits picked up in the second half and for the whole of 1979 totalled £1.37m against £1.23m. The dividend is increased 29 per cent to 3.75p (2.9085p) net per

share. current assets of £3.73m (£2.89m) and an increase liquid funds of funds of £131,000 (£1.28m). Chairman's emoluments amounted to £37,870

Meeting, Warwick, June 26 at

company were suspended last ments November when negotiations with Club 18-30 began. Mee Club 18-30 made a pre-tax 3 pm. (£21,420).

Fairey to make new forecast before Pearson completes

COMPLETION OF S. Pearson and Son's £24m purchase of Fairey Holdings from the National Enterprise Board has been delayed while Fairey management makes a new forecast of current year profits. "A few points of detail still have to be settled," Mr. J. P.

Medd, chairman of Doulton and the Pearson subsidiary At the interim stage the pre-tax figure was £77,000 higher at £344,000. The read of June."

Making the purchase, said yes-terday. "But we still hope to complete it by the end of June."

announced on May 1, the com-pletion was expected to be in mid-May.

Mr. Medd confirmed that "the most significant detail " still to be settled was the outlook for Fairey's profit this year. Concerned by signs of deterioration the engineering industry, Doulton asked Fairey managers in mid-May for confirmation of their 1980 profit forecast which was one of the factors on which Doulton's offer was based.

"They said they thought it would be better to go back and do a proper one," Mr. Medd stated. "It would be fair to say that we would be nearer completion if they had not decided to produce a new forecast."

Asked if Doulton might withdraw its offer if the forecast is pessimistic, he said, "I don't know. If the whole thing is a disaster, we would have to re-think our position. If the change is minor, we would go ahead."
Fairey's profits declined marginally in 1979 to 25.1m on turnover of £43.9m. Mr. Medd said none of the other details that remained to be settled seemed to

pose any major problem.

The NEB accepted Doulton's offer in preference to lower bids made by a consortium led by Hambros Bank. As in the case of the NEB's current attempt to sell its 50 per cent interest in Ferranti, there have been sug-gestions that the NEB's interest in getting top price on the

LG. Index Limited 01-351 3466.

Lamont Road, London SW10 0HS.

Fairey sale conflicted with Fairey directors' desire to remain independent rather than be bought by a single group. Fairey said yesterday it was

not involved in the negotiations going on between the NEB and Doulton and was unaware of any problems that had arisen. CLIFFORD'S

DAIRIES

Clifford's Dairles of 2,431,603 "A" non-voting ordinary shares at 66p, applications have been received in respect of 2,297,988, or 94.5 per cent.

GUINNESS PEAT AVIATION

Air Canada has acquired a 29.3 per cent holding in Guinness Peat Aviation, the Shannon-based aircraft leasing and financing company. As a result. Air company. As a result, Air Canada, Aer Lingus and the Guinness Peat Group will each have an equal holding in GPA, with the balance being field by Mr. Tony Ryan, managing director of GPA.

Air Canada's total investment

DATED: 28th May 1980.

August Sugar 393.20-395.55

of shares previously held by Aer Lingus, the Guinness Peat Group and Mr. Ryan.

has been applied to the purchase

ELLIS & EVERARD ACQUISITION

Ellis and Everard has acquired the capital of Anstead (Holdings) for £700,000 to be satisfied by 525,000 ordinary shares and £112,000 cash. In the year to November 30,

1979, Anstead made pre-tax profits of £176,000, giving net assets at that date of £538,700. Profits are warranted to continue at this level for the current year and a scale of bonuses and penalties has been incorporated in the agreement.

Anstead, with its subsidiaries, D. F. Anstead, Rosanne Products and Bongers de Rath, specialises. in the supply, manufacture and distribution of colours and high quality speciality chemicals for the food, pharmaceutical and cosmetic industries.

POCHIN'S

Pochin's has agreed for the acquisition of assets and goodwill only of the concrete pumpis £3.7m, of which £1.54m has ing division of Tilcon for been subscribed for a new issue of shares in GPA, and the balance at agreed valuation.

TO THE HOLDERS OF

Popular Español International N.V. Guaranteed Floating Rate Notes Due 1981

In accordance with the provisions of the above Notes, Bankers Trust Company, as Fiscal Agent therefor, has established the Rate of Interest on such Notes for the semi-annual period ending 28th November 1980 as Ten and one quarter per cent (104%) per annum. Interest due on such date will be payable upon surrender of Coupon No. 8.

BANKERS TRUST COMPANY,
Fixed Agent

LEMBAGA LETRIK NEGARA TANAH MELAYU · · · MALAYA : TRENGGANU HYDRO-ELECTRIC PROJECT

CONTRACTS AND TENDERS

NATIONAL ELECTRICITY BOARD OF THE STATES OF

CONTRACT NO. 1854/12 - TRANSFORMERS CONTRACT NO. 1854/13 - KENYIR 275 KY SUBSTATION

LEMBAGA-LETRIK NEGARA TANAH MELATU Invites applications from suitably qualified and experienced contractors wisking to be registered as tenderers for either of the following convects for the Trengganu Hydro-electric Project in Trengganu, Maiayass:

Contract No. 1884/12—TRANSFORMERS
This contract computers design, suitiply, dislivery and arection, etc., of the following plant:

Four-12 MVA. 289.5/13.8 kV. 50 Hz. three-phase, two formers with off-circuit taps and suddiary squipment. Two-180 MVA, 276/132/11 kV, 50 Hz, three-phase out auticide for SF6 ges insulated businer connection at 275 with on-load tep-changer and auxiliaries.

Two-500 kVA, 11/0.415 kV, 50 Hz transformers open 180 MVA euto-transformers. Heart No. 1864/13—KENYIR 275 kV SUBSTATION 5 contract comprises design, supply, delivery and

Seven (7) bays of 132 kV double-busber, single-b

LEMBAGA LETRIK NEGARA through the Government of obtained a foan from the Overseas Economic Co-operation under the Sixth Yen Credit to Snance the foreign current these Contracts. Applications for registration will be con

(1) Member countries of the Organisation for Economic Development (O.E.C.D.).

Development (C.E.C.).

(2) Development (C.E.C.).

(2) Development countries in general subject to intrividual notification approved by LEMBAGA LETRIK NEGARA.

Formel applications for registerium should be submitted not leter the 1 july, 1980. It is expected that tender documents will be issued registered tenders's about 1 August, 1980 for Contract No. 1854/13 and that tenders will required to be submitted about 3 months thereafter.

Tenderers shall be menulacturers or consortia of me items described and must have had approved previous design and manufacture of similar equipment. Full details of menulacturers' experience and their technical and linencial compensate must be forwarded with the applications. Applications must be accompanied by a banker's order or draft for \$Aust.250 payable to SNOWY MOUNTAINS ENGINEERING CORPORATION as a documentation fee. The documentation fee will be refunded only to applicants not issued with tender documents.

lostions must be forwarded to:
Project Menager.
Tranganu Hydro-Electric Project.
Snowy Mountains Engineering Corporation
P.O. Box 356, COOMA NORTH, NSW, 2880,

P.O. Box 1003, KUALA LUMPUR, MALAYSIA. LEMBAGA LETRIK NEGARA is not liable for costs incurred by applications and will not be hable for costs incurred registered tenderers in preparing tenders.

THARSIS

The Annual General Meeting of the Company will be held on Monday, 30th June, 1980 in the Hotel Lancaster, 7 rue de Berri, 75 Paris (8). The following features are from the

Substantial progress has been made towards complying with the requirements of the Spanish Mining Law of 21st July, 1973 and the document containing the Scheme of Arrangement. and the document containing the scheme of Arrangement, the relative Explanatory Statement and notices of meetings are being posted to shareholders with this Report and Accounts. It is intended to seek the approval of shareholders at meetings to be held in Paris on 30th June; 1980 to the various resolutions required to carry the Scheme into effect,

After taxation the profit of the Group for the year amounted to £982.574 compared with a loss of £807,694 in 1978. Last year there was a charge for an exceptional item in respect of the compensation to be paid to secure the early retirement of a substantial number of employees, which res overall loss. This year there is no such exceptional item.

The mines produced satisfactorily during the year. The tonnage of pyrites shipped showed a slight increase on the previous year and was again a record in the history of the Company. There are considerable stocks of mineral available to meet any possible additional tonnage required by the marker and an important programme of capital investment has been started during 1979 and will be completed in 1980.

The attention of shareholders is directed to the section of the Scheme document dealing with future prospects and dividend policy of the Company and Minas de Tharsis. In the case of Minas de Tharsis, an increase in the internal sales price of pyrites of some 14% was authorised in April 1980. which should help to offset the increase in wages and other costs. Regarding sales, it is expected that we will maintain our 1979 tonnage to the internal market and we hope to increase our export deliveries principally to Mediterranean

On behalf of the Board. I would like to express to all our personnel, senior staff, employees and workmen our gracifude-for their effort and co-operation during the year.

COMBINED INTERNATIONAL CORPORATION

This advertisement is issued in compliance with the requirements

of the Council of The Stock Exchange.

(Incorporated in Delaware, U.S.A.)

Share Capital

•	•				Number of Shares
Authorised		٠.		• :	issued fully paid
US\$ 5,000,000	Preferred	'A' Sha	res of no	o par value	
US\$ 5,000,000	Preferred	'B' Sha	res of no	par value	. –
US\$60,000,000					
	US\$1 eac		•	٠.	27,108,67

This advertisement appears in connection with the implementation of a Plan of Exchange, effective 30th May 1980, under which shareholders of the Company's subsidiary, Combined Insurance Company of America, exchanged their common shares in Combined Insurance Company of America for shares of common stock of the Company on a share-for-share basis. The Council of The Stock Exchange has admitted all of the issued shares of common stock of the Company to the Official List.

Particulars relating to the Company are available in the Extel Statistical Services and may be obtained during normal business hours on any weekday (Saturdays excepted) up to and including 16th June 1980 from:

> Rowe & Pitman. City-Gate House,

39-45, Finsbury Square, LONDON EC2A 1JA.

M. J. H. Nightingale & Co. Limited

CORAL INDEX: Close 414-419 (-1)

Tax-free trading on commodity futures.
 The commodity futures market for the small investor.

£000's Gapitalisato,	Сотралу	Last price	Change on week	Gross Div (p)	Yield	P/E
3,469	Airsprung ,	60	-4	67	11.2	3.51
85 0	Armitage and Rhodes	34	_	3.8	11.2	2.2
8,554	Bardon Hill	290	+5		4.9	8.21
780	County Cars 10.7% Pt.	78	_	15.3	19,6	9.21
. 6,420	Deborah Ord	93	_	5.0	- 5,4	10.2
4,574	Frank Horsell	122	-3	7.9	6.5	7.6
13,869	Frederick Parker	96	-4	12.8	13.3	4.4
2,214	George Blair	104	-Ì	16.5	15.9	
1.825	Jackson Group ,	73		6.0	8.2	—1 2.81
14,492	James Burrough	105	-1	7.2	6.9	9.2
3,060	Robert Jenkins	300	+5	31.3	10.4	9.8
3,462	Torday	225		14.3	6.4	5.9
2.671	Twinlock Ord,	124,	-012	8.0	6.7	2.4
2,020	Twinlock 12% ULS	74	+2	120	16.2	
6,268	Unitack Holdings	48	+1	2.6	5,4	10.2
990	Unifock Holdings New	45				9.6
11,622	Walter Alexander	92	+1	4.4	47	6.1
	W. S. Yestes	210	+2	12.1	5.6	3.4

FINANCE FOR INDUSTRY TERM DEPOSITS Deposits of £1,000-£50,000 accepted for fixed terms of 3-10 years. Interest paid gross, half-yearly. Rate for deposits received not later than 6.6.80:

† Accounts prepared under provisions of SSAP 15.

Terms (years) 3 4 5 Interest % 14 14 14 14 14 14 14 14 Deposits to and further information from The Chief Cashier; Finance for Industry Limited, 91 Waterloo Road, London SE1 8XP (01-928 7822, Ext. 367). Cheques payable to "Bank of England, a/c FFL" FFI is the holding company for ICFC This advertisement complies with the requirements of the Council of The Stock Exchange

Roy Lease Limited
(Incorporated under the laws of Canada)

U.S. \$50,000,000 111% Guaranteed Debentures Due 1985

Unconditionally Guaranteed by

THE ROYAL BANK OF CANADA



The following have agreed to subscribe or procure subscribers for the Depentares: THE ROYAL BANK OF CANADA (LONDON) LIMITED

WOOD GUNDY LIMITED
CREDIT SUISSE FIRST BOSTON LIMITED KREDIETBANK INTERNATIONAL GROUP
SWISS BANK CORPORATION (OVERSEAS) LIMITED
S. G. WARBURG & CO. LTD.
WESTDEUTSCHE LANDESBANK GIROZENTRALE

The Debentures, issued at 100%, less accrued interest, have been admitted to the Official List by the Council of The Stock Exchange subject only to the Issue of a temporary global Debenture: Interest is payable annually on the 15th June, the first payment being made on 15th June, 1981. Particulars of the Debentures are available in the Extel Statistical Service and copies may be obtained during usual business hours up to and including 17th June, 1980, from:—

Kitcat & Aitken London EC2V 6DT

London ECZN 3AD

Attention switches to D-Mark yields

IETHARGY spread through all bedly when they first reached sectors of the international the market continue to see their bond market towards the end prices improve as they find of last week. This mood was far more pronounced in the obliar sector than in the others, are most unlikely to fall much notably the foreign Dentsche further; even if one allows for lark sector, where the volume some more profit taking. The of new issuing activity remains yield enrve remains positive despite the hardening of Euro-

BSTATION

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, April 1983

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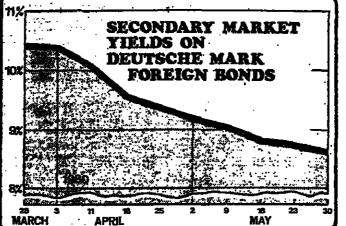
Two new Yankee issues were dollar rates last week—the sixnounced, one for the King month rate moved up i per cent of Sweden and the other to 10% per cent the EIB, and there were: party two new Eurodollar issues: are under much less pressure a \$200m seven-year note for to invest: they have, after all, line Italian electricity bought \$3.35bn worth of new which was completed before quite content at present to roll Raster and a \$100m 12-year over their deposits and certificate An issue for Femex Another factor is also at play. eries, an issue for Pemex Another factor is also at play, expected to be launched as Kidder Peabody's Weekly

their way into firmer hands. The consensus is that prices

At the same time investors

Telex to investors points out: per cent, haif the expected level in the U.S., some investors are naturally asking whether the considery following the lead Analysts watched is amazement ential of just 200 basis points to thing much happened for the content of the three-month Eurodollar between U.S. Government bonds to thing much happened for the content of the cont Mothing much happened for the pate fell in 91 per cent against and prime grade D-Mark issues test of the week and there 91 per cent for comparable reflects the reality of the special to be little loose paper maturity D-Mark deposits." situation.

All the new issues denomination in West Germany



expected to be contained at 5

ted in D-Marks were recieved last week, whether the terms were tight as in the case of the 81 per cent private placement for Austria or whether the borrower was, as in the case quality. The tight money policy being conducted by the Bundes-bank is helping to keep interest

BY PETER MONTAGNON

abroad, continues. Thus yields of below 8 per cent are forecast by some banks in the next week or so. Another feature of the D-Mark bond market at present is that the yields obtain able on foreign and domestic bonds are roughly in line. The German Capital Markets its monthly meeting last week,

domestic bonds can be expected Yields on both foreign and

domestic D-Mark bonds con-

tinues to fall meanwhile as the

buying pressure, not least from

Sub-Committee did not meet for in part because the volume of new D-Mark issues agreed to in recent months has rarely corresponded with the amount of paper eventually issued. But a steady stream of new bonds can be expected if the current favourable conditions continue

The first sterling denominated floating rate note issue, for Scandinavian Bank, met with a lukewarm reception when it reached the secondary market last week: among the reasons given by dealers is the fact that the borrower, a consortium bank, is not well known by investors, a minimum coupon which was too low (91 per cent) and the narrowness of the sterling sector in general.

CURRENT INTERNATIONAL BOND ISSUES

	Amount		Av. life	Coupon		Lead manager	yield
Borrowers	m.	Maturity	years	%	Price	· ·	<u> </u>
U.S. DOLLARS	- :					<u> </u>	
††Banco Centrale de			•	٠.			
Costa Rica	50	1985	5.	6÷Φ	100	EBC, BNP	Ф 302.3
# National Bk of Hung	ary 56	1985	5	5 2φ	100	Amex Bank, KilC	· 5.833¢
‡Roylease (g'teed Roy						•	•
Bank of Canada)	50	1985	5	111	100	Royal Bank of Canada	11.258
ITENSL .	200	1987	7	5 ₂ φ	100	Societe Generale	5.3190
††Kingdom of Sweden	100	1990	10	• • •	*	Salomon Bros.	
††Kingdom of Sweden	100	2000	13.09	40	4	Salomon Bros.	•
††EIB	100	1988	8	*	. •	Merrill Lynch	•
††EIB	100	2000	13			Memili. Lynch	4
Hydro-Quebec	700	1992	9.15	31} .	100	S, G. Warburg, CSFB	11.500
D-MARKS						*	•
‡* 'Hazama Gumi (g'tee	đ					_	
Dai-Ichi Kangyo Bi		1985	- 5	83	100	Bayerische Vereinsban	k 9,000
Republic of Brazil	150	1988	8	91	991	Deutsche Bank	9.342
1**World Bank	150	1988	g	81	99Ī	Deutsche Bank	8.587 .
+ 0,0112 021110		.,	•	-2	2	Bayerische Hypotheke	n .
1 Republic of Austria	50	1986	6	·8 1	100	Bank	8.250
			•	-•		Bayerische Hypotheke	n
1" Republic of Austria	50	1988	8	8 <u>1</u>	100	Bank	8.250
+ 144 F 22312 31 1123232			-	•	-	Bayerische Hypotheke	n
1" Republic of Austria	50	1990	70	81	100	Bank	8.250
SWISS FRANCS							
tRENFE (g'teed Spain	30 (1	1990		6 }	100}	SBC	6.431
#FGH Hypothekbank	50	1990	_	6	1001	Banque Gutzwiller	5.932
ITauern Autobahn	30	1770		•		Wirtschaft und	
(g'teed Austria)	20	1996	_ .	. 53	993	Privatbank	5.784
I''aNitto Boseki	30	1985		6	100	Banca del Gottardo	6.000
Asian Development	Bk 60	1990	_	61	300	Credit Suisse	6.250
‡**§Sharp Corp.	100	1985	_	53	100	Credit Suisse	5,750
LUXEMBOURG FRA	NCS						
Swedish Investment		1988	6 1	111/4	100	Kredietbank (L'bourg)	11.250
AUSTRIAN SCHILLI	NGS						
§§Oesterreichische			_				
Kontrbk.	500	1985		91	700	Orion, 5. G. Warburg	9_375
						A 251-1 E C	

CREDITS

Fine terms for Spanish utility

THE SPANISH utility, Enher, many international bankers is bankers on a \$500m credit by made with the joint borrowing has succeeded in obtaining ten. "no." After a brief flirtation its self-imposed May 28 deadby three Yugoslav banks, Jugobanks at a margin of only it per credit market is now increasing as the banks wait to see Investicionabanka Titopanka T dent throughout. According to ingly inclined to caution in view what sort of economic and amount has been set at \$107m first Migner Gerjo. Its finances of the deterioration in the financial information the bor, over seven years with a spread director, verbal agreement was balance of payments, a domest rower is prepared to provide of 11 throughout. By the end These terms are softer for

the borrower than those on the last Spanish credit, a \$160m borrowing by the state railways, kenfe, which also carried a \$ per dent margin but had a life of only eight years. The market: has also recently seen a \$350m credit for subsidiaries of the state holding company, INI, which had a widely syndicated \$290m tranche with a split \$1 per cent margin over eight Both these credits met strong

demand from international fanks, prompted by a shortage of quality borrowing in the medium-term credit, markets. The 10-year materially on the furrent deal, thus raises the question as to whether terms are now actually softening for month.

In short the answer from reach agreement with its Progress has, however, been

prompt greater recourse to international markets by

Spanish borrowers. The bankers are thus resisting the idea of seeing the Enher borrowing as a benchmark deal, though its progress in the market will be closely scrutinised. Enher is one of the best rated utalities in the INI

Czechoslovákia, meanwhile, is discreetly raising \$200m over seven years at a margin of ? per cent through a group of European banks. Banks in Klutznick, the U.S. Commerce polyed are seeking to avoid Secretary. This is regretted by rolved are seeking to avoid Secretary. This is regretted by publicity because the issue of the country's bankers who feel leading to Eastern Europe that membership would result remains sensitive after East in a more open flow of informa-Germany's Intrac had to shelve a-3150m to \$200m credit last

vide more details on its short- Hanover. term debt and some information
on its long-term debt and with a margin of } per cent
reserves, though it is unlikely throughout was signed last
that this will be enough to perweek for Italy's Cofiri. This is mit bankers a detailed insight into the country's foreign exchange cash-flow.

Poland also seems unlikely to apply for membership of the IMF despite recommendations to this effect from Mr. Philip that membership would result tion and also enable Poland to obtain IMF credit supported by nonth an agreed economic stabilisa-As expected Poland failed to tion programme.

eached late last week on a tic liquidity squeeze and a to back up its request.

75m mandate on this basis with growing public sector budget The lack of good quality stantially underwritten on a loyds Bank International and deficit, all of which could information has been one of the club basis by several banks on timental Illinois.

Drownt greater recourse to main stumbling blocks in the including blocks in the including blocks. main stumbling blocks in the including Bankers Trust, Bank negotiations. It is understood of America, Chase Manhattan, that Poland has agreed to pro-

> the first Euromarket borrowing is likely to be borrowing from by the Istituto per la Ricostruzione Industriale group member. The transaction was led by Hill Samuel, Bayerische Landesbank Girozentrale. Lloyds

Europeenne de Credit. In the corporate sector, Cie Française des Petroles has arranged a \$25m five-year revolving credit facility at a per cent margin over Libor through the National Bank of

Bank International and Banque

Euromarket tops a trillion, Page 32

US. BONDS

Market defies Fed rate cut

THE FEDERAL Reserve last which came down from 141 to to trade about 10.5 per cent week cut the discount rate and 14 per cent during the week, without intervention, suggest as well as that of the Adminithe credit markets barely man- Just as not too many banks are that the halt to the avalance stration continues to be one of aged a nod to acknowledge the borrowing at the discount rate, of falling rates could be dur-fact. Although in marked con- it seems that not too many able. The fact that rates contrast to the dramatic conse- prime quality borrowers are borquences of the upward move in rowing at the prime. With the rate earlier this year, the commercial paper rates still lack of response was not surpris- under 9 per cent, it is hard to

Not only had the move been long forecast but the Fed's, even at its new level of 12 per cent. is still well above market rates. No bank, other than in distress, the Fed at this stage.

The falling discount rate was

lomen på me	raumg	brime
U.S. INTEREST	RATES (9	4)
	Week to May 30	Week to May 2
3-month Treasury Bill	7.90	7.55
3-mnth, comcl, paper	8.13	8.00
Federal Funds weekly average	10.82	. 9,61
Treas. 30-year bond	10.41	10,31
Lng-term AAA utility	11.25	11.13
Lng-term AA indetri.	11.02	11.90
Source: Selomon B	ros. estim	ates

see why big corporations should wish to do so. The prime and discount are also misleading, because in the last week they have been moving in the opposite direction to virtually every other interest rate.

Rates on three - months Treasury bills have, in a week shortened by the Memorial Day holiday on Monday, edged from 7.50 to 7.90 per cent. Similarly, in the bond market, prices have slipped, taking the yield on the long Treasury bonds up about 20 basis points on the week.

Although miniscule in comparison with recent falls, these gains, and the fact that the market reacted with some surprise allowed the Federal funds rate ments this week.

tinued to firm on Friday in spite of the fact that the Government reported the sharpest monthly drop on record in the leading economic indicators (they were down 4.8 per cent) strengthens this impresssion. The sense of caution has been

greatly enhanced by the quite extraordinary volume of corporate funding now entering the market, which is running almost at a rate of \$2bn a week. Latest estimates for May are \$6.3bn more than three times last year's monthly average. The market also has on its

mind the fact that a Treasury caught up in one of its periodic impasses with Congress over extension of debt ceilings has had to put off over \$70n of financing. As a result the Treasury announced late on Friday that it would hit the when the Fed in mid-week market with \$16bn of require-

trying to insure against too long and severe a recession, while maintaining control of the monetary aggregates. At cranking at the money supply, trying to regrow it back into line with its targets. M1-B was up \$1bn on Friday, but such moderate growth is nowhere near sufficient to reverse the recent 5.9 per cent rate of quarterly decline. Non-monetarist economists meanwhile are warning with unashamed satisfaction that the Fed may find it extremely difficult to turn on the tap of money supply, having tried to turn it off only three months ago.

BY IAN HARGREAVES

President Carter, meanwhile, is on the campaign trail telling audiences that the tide has turned in the country's battle for economic regeneration. This week's unemployment figures will make that message harder to swallow in many parts of the country.

April 1980

FT INTERNATIONAL BOND SERVICE

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AICE		· 			
BONDTRADE IN	DEX AND	YIELD			
Medium	term Lo	ng term			
May 30 92.26 1 May 23 91.56 1		72 11.04 5 11.17			
High '80 82.26 (3 Low'80 86.32 (0/5} 89.1 2/4) 71.5	19 (2/1) 14 (29/2)			
EUROBOND TURNOVER (nominal value in \$m)					
	Çedel	Euroclean			
U.S. \$ bonds Last week Previous week	1,217.5 1,117.6	2,952,0 4,103,2			
Other bonds Last week Previous week	165,9 299,3	281.9 404.1			

* No information availableprevious day's price. † Only one market maker supplied a price. STRAIGHT BONDS: The yield

is the yield to redemption of the mid-price; the amount issued is in millions of currency units except for Yen bonds where it is in billions. Change on week= Change over price a week earlier.

FLOATING RATE NOTES: Denominated in dollars unless otherwise indicated. Coupon shown is minimum. Cdte=Date next coupon becomes effective Spread=Margin above six-month offered rate (‡three-month; offered rate (\$\frac{1}{2}\$ three-month; \$\frac{1}{2}\$ above mean rate) for U.S. dollars. Copn=The current coupon. C.yld=The current yield.

CONVERTIBLE BONDS: Denominated in dollars unless otherwise indicated. Chg. day= Change on day. Cuv. date=First date for conversion into shares. Cnv. price=Nominal amount of bond per share expressed in currency of share at conversion rate fixed at issue. Prem=Percentage pramium of the current effective price of acquiring shares via the bond over the most recent price of the shares. most recent price of the shares. The list shows the 200 latest international bonds for which an adequate secondary market exists. The prices over the past

week were supplied by: Arab

Company for Trading Securities SAK; Kredietbank NV; Credit Commercial de France; Credit Lyonnais; Commerzbank AG; Deutsche Bank AG; Westdeutsche Landesbank Girozentrale; Banque Internationale Luxembourg; Kredietbank Luxembourg, Algemene Bank Nederland NV

Samuel Montagu and Co.; Scan-dinavian Bank; Strauss Turnbull and Co.; Sumitomo Finance Inter-national; S. G. Warbarg and Co.; Closing prices on May 30 These Bonds have been sold. This announcement appears as a matter of record only.

U.S. \$50,000,000

Northwest Industries Finance Corporation N.V.

138% Senior Guaranteed Bonds due 1987

Guaranteed by

Northwest Industries, Inc.

Orion Bank Limited

Banque Nationale de Paris Bank Brussel Lambert N.V. County Bank Limited Credit Suisse First Boston Limited

European Banking Company Limited First Chicago Limited Goldman Sachs International Corp. Salomon Brothers International

S. G. Warburg & Co. Ltd. Westdeutsche Landesbank Girozentrale Dean Witter Reynolds International

mene Bank Nederland N.V. A. E. Ames & Co. Limited Bache Halsey Stuart Shields Incorporated Banca Commerciale Italiana Banca del Gottardo Bank Gutzwiller, Kurz, Bungener (Overseas)

Bank Heusser & Cie AG Bank Julius Baer International Limited Bank Leu International Ltd. Bank Mees & Hope NV Bank Morgan Labouchère N.V. Bank of America International Limited Bank of Heisinki Ltd. Banque de l'Indochine et de Sucz Banque de l'Union Européenne Banque de Neuflize, Schlumberger, Mallet Banque de Paris et des Pays-Bas

Banque Française du Commerce Extérieur Banque Générale du Luxembourg S.A. Banque Internationale à Luxembourg S.A. Banque Louis-Dreyfus Banque Rothschild Baring Brothers & Co., Limited Bayerische Hypotheken-und Wechsel-Bank

Bayerische Landesbank Girozentrale Bayerische Vereinsbank Bear, Steams & Co. Berliner Handels und Frankfurter Bank Blyth Eastman Paine Webber International Limited **B.S.I.** Underwriters Limited

Cazenove & Co. Centrale Rabobank Chase Manhattan Limited Chemical Bank International Group Christiania Bank og Kreditkasse Citicorp International Group Compagnie de Banque et d'Inv (Underwriers) S.A. Copenhagen Handelsbank Creditanstalt-Bankverein

Crédit Commercial de France Crédit du Nord Crédit Industriel d'Alsace et de Lorraine Crédit Industriel et Commercial Credito Italiano Daiwa Europe N.V. Richard Daus & Co. Bankiers

vormals Hans W. Petersen Den Danske Bank af 1871 Aktieselskab Den norske Credithani Deutsche Girozentrale Deutsche Kommunalbank-

DG BANK Deutsche Genossensch Dillon, Read Overseas Corporation Dominion Securities Limited Dresdner Bank Aktiengesellschaft Drexel Burnham Lambert Incorporates Effectenbank-Warburg Aktiengesellschaft Eurogest S.p.A. Euromobiliare S.p.A. **Europartners Securities Corporation** Robert Fleming & Co. Limited
Fuji International Finance Limited

F. van Lanschot Bankiers NV Gefina International Limited Genossenschaftliche Zentralbank AG, Vienna Antony Gibbs Holdings Ltd. Girozentrale und Bank der österreichischen Sparkassen Aktiengesellschaft Greenshields Incorporated

Groupement des Banquiers Privés Genevois Hambros Bank Limited Handelsbank N.W. (Overseas) Limited Hessische Landesbank-Girozentrale-Hill Samuel & Co. Limited E. F. Hutton & Co. International Inc. IBJ International Limited Jardine Fleming & Company Limited Kansallis-Osake-Pankki Kidder, Peabody International Limited Kleinwort, Benson Limited Krediethank N.V. Kuhn Loeb Lehman Brothers International Inc. Lazard Brothers & Co., Limited

Lloyds Bank International Limited

Lazard Frères et Cie

Samuel Montagu & Co. Limited Morgan Grenfell & Co. Limited Morgan Guaranty Ltd. Morgan Stanley International Nederlandsche Middenstandsbank N.V. Nederlandse Credietbank N.V. Nesbitt, Thomson Limited
The Nikko Securities Co., (Europe) Ltd. Nomura Europe N.V. Nordic Bank Limited Sal. Oppenheim jr. & Cie. Orion Pacific Limited Österreichische Länderbank Peterbroeck, Van Campenhout Kempen S.A. Pierson, Heldring & Pierson N.V. Privatbanken A/S Rothschild Bank A.G. N. M. Rothschild & Sons Limited The Royal Bank of Canada (London) Limited , Henry Schroder Wagg & Co. Limited Shearson Loeb Rhoades International Limited Skandinaviska Enskilda Banken N. V. Slavenburg's Bank Smith Barney, Harris Upham & Co. Incorporated Société Générale Société Générale Alsacienne de Banque Société Générale de Banque S.A. Sparbankernas Bank Strauss, Turnbull & Co. Sumitomo Finance International Svenska Handelsbanken Swiss Bank Corporation (Overseas) Limited Union Bank of Finland Ltd. Verband Schweizerischer Kantonalbanken Vereins-und Westbank Aktiengesellschaft J. Vontobel & Co. Wardley Limited WestLB Asia Limited **Wood Gundy Limited**

Yamaichi International (Europe) Limited

Manufacturers Hanover Limited

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3.30 Boustead Bhd. 3.84
2.60 Cold Storage. 3.55
4.45 DBS 4.60
5.70 Fraser & Neave. 7.25
1.79 Haw Par. 1.98
2.19 Incheape Bhd. 2.78
7.95 Malay Banking. 10.50
4.63 Malay Brew. 5.05
7.16 OCBC. 8.6
1.45 Pan Elect. 1.94
2.66 Sime Darby. 3.32
7.65 Straits Trd9 15.3
3.50 UOB. 1.404

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Dolek 304 — Source: Bank Leumi te Israel, BM, Foi

NGCES. Prices on this pine are sill quoted on the individual suchanges and are less tracked prices. S Destings suspended: at Ex dividend, as Ex partitions, are Ex partitions, are Ex partitions, are Ex partitions.

Aviv.

Carenda

Industrial Combined

557,79 262,84 362,41 361,72 423,80 (29/2) 575,07; 551,36 559,58 540,18 578,90 (29/2)

TORONTO: Composite 1971.7; 1956.8; 1997.9; 2006.6; 2192.5 (29/2) 1702.5 (27/5)

NEW YORK ACTIVE STOCKS

| Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | C

325,21 (27/5) 296,90 (27/5)

Change

WORLD Capital Intl. (1/1/78)

SWITZERLAND Swiss Bank Co. (51/12/56) 292.4 294.1 295.4 296.2 577.9 (11/2)

20 Transports. e Closed, y Usavelishie.

_ 155,5 157,9 167,8 148,E (15/2)

and Poors—10; and Toronto—1,000; the last named based on 1976. † Exclusion

bonds. ‡ 400 Industriels. § 400 Industriels plus 40 Utilities, 40 Financials and

284.5 (22/4)

120.6 (27/8)

252 205 Forenede Brygg. 232.0
179 149.5 Forenede Dampak 179
202.75 155.5 [6NT Hidg. 164
157.25 129.25 Nord Kabel 254.75
135 100 Papirfabrikker 105.25
136 105.25 Privatbankenk 105.25
135 105 Prov Nabanken 106
259 246.5 Smidth (FL) 252
265.5 266.5 Berendsen 258.75

WORLD STOCK MARKETS Companies and Markets HONG KONG HOLLAND **CANADA** May 30 May 30 NEW YORK May 30 May. Stock Nigh | Low High |- Low May 30 May 30 Price 53s Schlitz Brew J.-.. 954s Schlumberger High | Low High Low

14:40 9.20 Cheung Kong 2.75 1.84 Cosmo Prop. 11.00 8.60 Cross Harbour 7.10 4.85 Eastn Asia Nav. 104.00 80.00 Hang Sang Bank. 80.00 55.00 HK Kowloon Wn. 15.24 9.24 HK Land 25.90 11.20 HK Shanghai Sk. 29.56 21.74 HK Telephone 9.25 6,70 Buttohison Wps. 15.79 11.74 Jardine Math. 5.90 3.10 New World Dev. 5.13 3.25 O'ssas Trust Sk. 10.30 6.90 Swire Pac A. 5.50 4.30 Wheel'k Martit's 434 St. Ati. Pag. Tes.
12 St. Basins Pet...
2712 St. Mth. Nekoosa
1412 St. West Financ'i
14 Greyhound
18 Grumman....
Guif & Western... High | Low 858 24 3779 22 1819 5839 2234 74 41 5558 614 894 1416 104 584 6134 58 Mosa Petroleu MGM 91. May 30 Schlumberger.... Schlumberger.... Scott-Paper..... Scudder Duo V... Sea Contra 13,4 2,17 9,35 5,60 102 5,60 11,1 24 7,90s 14,6 3,82 4,25 9,710 4,35 5,4 75.5 67.60± 23.60 MGM
Metromedia
Mitton Bradley
Minnesota MM
Missouri Pac
Mobil
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Monasch M/T
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MoremeChrk
Moreme(JP) 62.1 ACF Holding. -504 2558 464 5036 511₂ 74 274 Com. Ins. Am. 475 Combustn. Eng. 712 Combustn. Eng. 1712 Comwith Edison. 204 Comm. Satellie. 181₈ Compugraphic. 243, 18 16 10 35 267, 41 28 38 313, 28 225, 301, 225, 203, 96 185 ACF industries 33 AMF 1412 AM Inti 1734 Agnico Eagle. Alean Alumn. 124 314 314 341 27 21,4 AKZO..... 54 84 23 4 1112 2054 3718 554 2214 2334 18 265 3178 1718 28 Algoma Steel ...
5112 Aspestos...
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2256 Bk Nova Scotia...
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7014 brd Coast L... 83.10 2018 531g 14 18 15 94e 74e 28 527₈ Gulf Oil... 203₄ Hall (FB). 821₄ Halliburte 201₈ Hammern Handlems 283₅ Hanna Mi 26 Haropyrt 111₂ Harnischi 514 7 Mohasco 782
2014 Monarch MIT 28
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3514 MooreMcCmrk 41
4018 Morgan (JP) 4634
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12 Munsingwear 1534
1218 Murphy (GC) 14
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19 Nabisco 8514
29 Nabisco Chem 3218 27 108 281₈ 124 431₄ 105.3 65.5 28.5 289.5 72.8 85.6 63.5 24 29 76.8 118.5 60.9 24.7 118.5 118.5 118.5 175 | CIG... 155c | Com 3114 | Cone 295c | Conn 413c | Cone 20 | Cone 37s 17s 2334 165s 461s 295s 5734 141s 247s 20 27 20 247s 151s 481s 175s 284s 161s 125s 661s 125s 661s 125s 661s 1444s 15 Sears Roebuck...
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5612 Shell Trans......
2312 Shell Trans......
2312 Signal........
2315 Signal........ Comp. Science... 2038 Cone Mills............ 2314 Conn Gen Ins..... 3718 3078 78 7848 3619 3476 4619 3838 30 | Aetna Life & Gas | 361₂ 15 | Ahmanson (H.F.) | 221₄ 625₈ | Air Prod & Chem | 271₂ 61% 15% 15 15 113 25 25 35% . 674 354 275 336 Genoco 354 153 Akzona 101₂
Albany Inti 271₂
Albarto-Cuiv 91_a Cons Edison S1.20xc 2478 17.0 19.50 25.4 67.40 3878 1958 7½ 264, 3034 2772 1478 5334 17 Cadillac Fairy.... 162 Camflow Mines... 104 Can Cement....... 167s Can NW Lands.... 20.50mt-Mueller 274 401 194 191 23 20.3 m Marches 20.3 m 141₉ 245₄ 30 32 75g 53g 91g 295g 45 91g 878 854 1178 Simplicity Patt... 1034 1044 154 4155 6444 1454 16 2618 1278 614 3558 4654 30 JAPAN 227g Heroules
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Hilton Hotals 24 251a 3414 55 1114 May 30 Price Yen 241₂ 343₆ 265₈ 21 205₈ 313₄ 45 151₈ High | Low 89.7 118.5 11.0 514 Alinemeth 465 Amada 340 Asahi Glass 480 Bridgestone 579 Canon 595 546 | 18 | Can Perm muy | 2018 | 18 | Can Trustoo | 25 | 22 | Can Imp Bank | 27 | 247g | Cdn Pacific | 214g | 251g | 261g | 761g | 7 548 593 560 667 394 1,000 405 555 362 321 36;3 1514 2014 566 28618 3918 3918 3658 4273 4673 4673 4673 4714 57.2 20,8 45 Amai, Sugar..... Amax Amerada Hess ... Am. Airlines Am. Brands..... Am. Broadcastg. 80 231₂ 347₂ 17 241₄ 561₂ 14 357₈ 305₈ 451₈ 29 110.8 157.5 111.4 Am. Can. 315g
Am. Cyanamid 307g
Am. Cyanamid 307g
Am. Express 54
Am. Express 54
Am. Gen. Inance 321g
Am. Horst & Dk. 195e
Am. Home Prod. 281g
Am. Hosp. Supply 331g
Am. Medical Int. 351g
Am. Medical 80½ 1836 50 9½ 758 52 865 82 251.4 159.5 119.5 97.5 36.6 93.5 67 342.8 459 1,025 420 592 927 3,100 1,870 554 672 834 Eisai...... 370 Full Bank 457 Full Film. 749 Fulisawa. 313e 251₂ 451₈ 201₄ 510 Green Cross.... 478 Hasegawa 555 Heiwa Ri East. 341<u>2</u> 487<u>2</u> 303₈ 233₄ 327₈ Humana 423₄ 9 Hunt (Philip A) 115₄ 575₄ Husky Oil 834 191₈ Hutton (EF) 237₈ 487₈ 137₅ | 1458 | Dom Bridge | 1758 | 3634 | Dom Foundries A | 3412 | 17 | Dom Storea | 24 | 8012 | Falcon Nickel | 29 | 25 | Genstar | 2718 | 12514 | 2119 | Guiff Canada | 3112 | 350 | Hawk Std. Can... | 1814 | 350 | Hollinger Aga. A | 29 ITALY 931 Hitschi 492 Hitschi Kokl 534 Honda 700 House Food 266 562 598 780 273 615 686 800 1886 4012 2012 3058 156 3412 150 36 1012 1812 50 1980 High | Low 1456 584 305 2914 5536 978 591 1614 3118 5714 2534 15 25 22 4034 May 30 884 760 Hoya... 554 490 Itoh (0 600 516 Ito Har 1,420 1,000 Ito You 500 290 JACCS 2,600 2,300 JAL... 910 -650 Jusco 8.00 441 585 050 430 430 537 420 537 420 537 450 452 355 352 -650 Juaco 268 Kajima.... 370 Kao Soap 299 484 544 416 486 1,150 398 715 474 566 390 5,260 598 518 22 23 23 23 93 91 421 421 361₂ 360 Kikkoman 360 Kikkoman 385 Kirin 964 Kokuyo 527 Komatsu 610 Komatsu Fift 40¹8 124 63⁷8 44³4 325.5 189 2,148 2,148 750 776 580 15,250 9,005 Armstrong CK. 147s
Assumera Oil. 201s
Assarco. 3614
Ashland Oil. 3814
Assa O Goods. 2134
Atlantic Rich. 9054
Auto. Data Prg. 39
Avec. 2234
Avery Intl. 18 87s Outboard Marine 107s
18 Overseas Ship... 245s
222s Owens Corning... 251s
201s Owens Illinois... 251s
191s PRG Inds ... 301s
105s Pac. Gas & Elect 237s
171s Pac. Lighting ... 22
41 Pac. Lumber ... 467s 2,049 2,610 710.5 746 551 14,500 9,005 16 25¹₂ 30³₄ 26¹₂ 25¹₂ 33³₆ 13⁵₄ 24¹₄ 22¹₄ 56 2636 4012 5014 7834 107 4514 1914 5318 2958 2812 4736 4212 2412 53 5718 405 Konishiroku 363 Kubota..... NORWAY 970 Makita... 1,190 399 866 736 736 579 420 724 203 402 555 465 492 | 136a | Easco | 143a | 51a | 51a | 52a | 1980 May 30 Price 2578 5419 2659 1858 2759 2634 576 3014 3614 3818 High. Low 131₂ 171₈ 6 103.5 80 114.50 83 450 605 125 715₄ 477₈ 325₈ 291₈ 265₄ 345₈ 537₈ 367 M'bishi Bank. 606 M'bishi Corp. 185 M'bishi Elec. 357 M'bishi Ri Est. 104, 224, 201, 177, 335, 237, 135, 396, 193, SWEDEN. 25½ 3,00 254 20 46 361 234 3212 234 3394 287 4218 285 4712 263 4713 263 4714 29 6061 3812 3724 273 4854 3012 37 Pepsido
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1,030 Nippon Denso...
650 Nippon Gakki...
408 Nippon Meat...
1,660 Nippon Oil....
505 Nippon Stanpan...
118 Nippon Steel....
193 Nippon Suisan...
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618 Nissan Motor.... High | Low 181 136 86.5 80 170 139 1139 106 151 119 95 264 130 77 212 70.5 98 84.5 169 2878 3258 12 281 281 281 281 281 1978 281 1978 291 1631 1631 1631 411g 505g 144g 58 441g 131 63 Ethyl Evans Prods..... Ex Cell O 64.50 150 117 98.0 97 147 84 86.5 114 75 215 FMC-----3178 424 36 307a 3134 155 378 43a 3 38 26 18 1812 167a 1212 345a 2314 105e 512 29 215a 28 2234 394a 3234 177a 107a 317 Rischin Flour...... 148 Nisshin Steel...... 368 Nomura...... 344 150 421 296 797 1,020 1,820 515 552 362 1.59 Essetts
- 83 Fagersta
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- 148 St. Kopparberg
- 53.5 Sven Handelsbn
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- 57 Uddaholm
- 66 Volvo 57 267₉ 81₂ 331₂ 263₄ 38 231₄ 79 25 % 55 % 517 % 25 % 22 12 21 5 % 77 7 % 20 13 143e 56 394 43 73₄ 286 NYK .: 1,030 2,050 573 655 412 Braniff Intl...... 678
Briggs Strain..... 2358
Bristol-Myers..... 3712 18½ 38¾ 29 .700 Pioneer. .. 483 Renown... 525 Richoh.... 601₂ 435₈ 45₉ 14 373₄ 403₄ 161₂ 37 202₈ 213₄ 337₈ 221₉ 52 BP. 314
Brockway Glass, 1654
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Brunswick 1812 73.0 | 1214 | Teck B | 14 | 17 | Texaco Ganada | 8034 | 1518 | Thomson News A | 1518 | 2512 | Tronsto Dom Bk. | 298 | 2019 | Transcan Pipe | 23 | 104 | 104 | 105 | 1500 | Min as | 1518 | 1918 | 3.10 | Warrior Res. | 4.45 | 2816 | Weston (Geo) | 24 195 2556 1734 Pub. 3. Indiana... 217g 4014 20 Puriman... 311g 1634 1556 Purex 1256 32 21 Purolator... 255g 70.50 85,50 203 95 164 31 29 144 162 28 5,45 152 284 Purrax
Purex
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Questor | 155g | 111g | 1st Chicago | 141g | 1st Chicago | 141g | 1st Chicago | 141g | 1st Chicago | 142g | 1st City Bank Text | 421g | 441g | 1st Ini Banc | 407g | 355g | 241g | 1st Ini Banc | 305s | 355g | 1st Pa nn | 55g | 70 | 241 | Purolator | 255 |
| 241 | Quaker Cats | 341 | |
| 181 | Quenax | 24 |
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| 2 | 2 | Ramada Inna | 36a |
| 34 | Rank Org ADR | 376 |
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6,825 6,100 Hoff-RoshePt Cts 56,500
6,825 6,100 Hoff-RoshePt Cts 56,500
1,570 4,835 Interfood 5,700
1,520 1,260 Landis & Gyr 1,390
3,600 3,850 Nestie 5,315
2,900 2,415 Der-Buhrle 2,665
2,900 2,415 Der-Buhrle 2,665
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GAF

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1.45 Myr Emp. 1.49
2.32 Nat Bank. 2.43
2.10 News 2.50
1.05 Nicholas Int. 1.55
2.80 North Bkn Hill 3.55
2.80 North Bkn Hill 3.55
0.68 Otter Expl 1.65
5.10 Pancon 6.50
0.14 Pan Pacific 0.22
173 Ploneer Conc. 2.08
0.26 Queen Marg* C. 0.34
1.93 Reckitt & Coin 2.45
8.90 Santo's 15.40
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0.25 Southland Ming 0.50
0.39 Sparges Expl 0.42
1.91 Thos Nationwide 2.35
1.76 Tooth 8 Inning 0.50
0.85 Vallant Conadt 1.15
0.55 Waltons 0.67
1.70 Woodside Petrol. 2.89
1.42 Woodworths 1.47
2.75 Wormald Inti. 3.18 7,10 6,60 6.50 6.01 HOLLAND Banking, insurance and Finance.
Bank Léumi le Israel...
IDB Bankholding
Bank Happalim-Br.,
Union Bk, of Israel Br.
United Mizrahl Bank ...
Hassneb, Iristrace Br.
General Mort. Bank Br.
Telahot Isri. Mt. Bk.
Land Development HOLLAND ANP-CBS General (1879) 84,5 84,7 84,8 ANP-CBS Indust (1870) 66,8 65,7 65,4 . 275,50± 199 | 164 | BHF-Bank | 124 | 172 | 149 | BMW | 168 | 168 | 524 | 280.5| Erown Boveri | 297 | 186.4 | 150.4| Commerzbank | 185.60 | 42.2| Conti Gummi | 54.60 | 259.5 | 226.5| Dajmier Benz | 267.5 | 261.5 | 220.5| Degussa | 231.5 | 125 | 125 | Demag | 126 | 125 | 126 | 125.50 | STANDARD AND POORS 74,8 (27/8) 58,2 (28/8) 1980 Since Cmpii't'n + 9.0 + 11.0 + 34.0 - 20.0 + 1.0 - 24.0 - 15.0 + 20.0 696; 1,003 686; 441; HONG KONG findust'is __, 125,85, 125,82, 128,83, 125,24, 124,36, 122,58, 164,47, 111,09 154,64 : 5.52 iang Seng Bank (847/64), 894.52 885.45; 884.96 \$76.54 965.17 (15/2) 758,9 (19/3) Indust's ... 125,86 123.62 168.63 168.62 172.66 171.40 116.62 189.81 118.44 198.22 175.86 4.40 (15/2) (15.2) (11/1/75) (16/82) ITALY Banca Comm. Ital (1972): 57.58| 98.65| 96.57| 96.54| 97.66 (59/5) 83,11 (2/1) البراب جير 274.9 210 D'sche Saboock 215.50
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200 168 Kaufhof 188
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265.5 175.2 Schering 243
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160.5 181.7 Vebs 159.20
278 260 Verein-West 264
191.1 170 Volkswagen 185.50 Commercial and Industrial
Alliance Tire a Rubber 1 849 | +274.0
EICO Br. 244 + 23.0
Argaman Textile Br. 249 - 15.0
"Att" Textile "B" 1845 + 11.5
"Aprec Sirveli "Pr. Mille 330 - 10.0
Text Reg 740 | +25.0
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Text Red ON 304 63,4462,9763,88 65.50 67.77 65.30 (27/6) 1980 High | Low 136,5 109 Andelsbanken 108
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120,100,75 Danske Bank 294,50
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128,5 105,78 East Asiatic 104,00
162,5 140,75 Finansbanken 142,25
205 Forenede Brygg 232,0 SPAIN Madrid SE (28/12/79) 57.44 87.17 97.50 99.68 195.29 (21/2) 95,76 (1E/S 1980 SINGAPORE MONTREAL May May 30 29 May 27 SWEDEN May 28 1980 High Low 567_18 564_48 565_20 565.98 385.98 (8/2) \$24,72 (17/1, Jacobson & P. (1/168) Price May 30 ·

These particulars have been prepared for the purpose of giving information to the public with regard to South West Consolidated Minerals Limited ("SWCM"). The Directors of SWCM and Dundonian Limited ("Dundonian save to ensure that the facts stated herein are true and accurate in all material respects and that there are no other material facts the omission of which would make misleading any statement herein, whether of the Directors of SWCM and Dundonian accept responsibility accordingly.

There is no listing on any stock exchange for the shares of SWCM and application is not being made to any stock exchange for a listing for any part of SWCM's capital. Application will be made for the shares of SWCM and application is not being made to any stock exchange under the provisions of Rule 183(3). SWCM has entered into a Sponsorship Agreement with Rowe Rudd & Co. whereunder it has agreed, inter alia, to apply for the admission of its share capital to the Official List when it is requirements for listing. Persons wishing to deal in the Official shares of SWCM in accordance with Rule 163(3) should consult their stockbroker or other professional adviser in the normal manner.

South West Consolidated **Minerals Limited**



A COMPANY CARRYING OUT AN EXTENSIVE PROGRAMME OF MINERAL EXPLORATION IN CORNWALL, WHICH MAY LEAD TO THE DEVELOPMENT OF MAJOR NEW MINES PRODUCING IN THE MAIN TIN, TUNGSTEN AND SILVER..

OFFER FOR SALE by ROWE RUDD & CO. of 5,500,000 Ordinary Shares of 10p each in SWCM fully paid, at 50p per share

The procedure for application and an Application Form are set out below. The Application List for the Ordinary Shares now offered for sale will open at 10.00 a.m. on 5th June, 1980 and may be closed at any time thereafter.

Investment in a mineral exploration company such as SWCM is speculative. The section headed "Risk Factors" contained within this document should be carefully considered.

Share Capital

Authorised` £3,000,000 in 30,000,000 Ordinary Shares

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Issued or to be issued fully paid £2,400,000 in 24,000,000 Ordinary Shares of 10p each

Indebtedness

Board of Directors

Max Robert Lewinsohn, F.C.A., A.T.I.I., (Chairman), Downs House, Brighton Road, Banstead, Surrey,

Gerald Crosland Pengilly; M.B.E., A.C.S.M., C. Eng., F.I.M.M.,

(Managing Director), "Reef Cot", 30 Forth-an-Nance, Portreath, Nr. Redruth, Cornwall

Donald George Neville, LLB.,

De Tillens, High Street, Limpsfield, Surrey Ronald William Potts, T.D., J.P.,

Metheral, Tredethy, Bodmin, Cornwall Richard Michael McNeil Williams, F.C.A.,

Hazelhurst Farm, Strood Green, Wisborough Green, Sussex.

Company Secretary and Registered Office

Malcolm Roger Smith, F.C.A. 3 Katherine Street, Croydon CR0 1 NX

Geological and Mining Consultants

Robertson Research International Limited, Tyn-y-Coed, Lianthos, Llandudno, Gwynedd, North Wales LL30 15A

Stockbrokers

Rowe Rudd & Co., 63 London Wall, London EC2M 5U0

National Westminster Bank Limited,

41 Lothbury, London EC2P 2BP

The Royal Bank of Scotland Limited,

New Issues Department, 62 Lombard Street, London, EC3P 3DE

Nabarro Nathanson,

76 Jermyn Street, London SW1Y6NR

Berka Cohen Fine & Partners, Chartered Accountants 14 John Princes Street, London W1M 9HB

The Royal Bank of Scotland Limited 31 St. Andrew Square, Edinburgh EH2 2AB

an application form is printed at the end of this PROSPECTUS. COPIES OF THE OFFER FOR SALE AND ADDITIONAL APPLICATION FORMS MAY BE OBTAINED FROM:

Rowe Rudd & Co., 63 London Wall, LONDON EC2M 5UQ.

National Westminster Bank Limited. St. Andrew's Cross

LONDON EC3P 3DE

The Royal Bank of Scotland

Dundonian Limited Downs House,

SURREY SM7 1DE.

PLYMOUTH PL4 CAE.

South West Consolidated Minerals Limited,

CORNWALL PL30 40S.

The following is a copy of a letter to Rowe Rudd & Co., from Mr. Max Lewinsohn, Chairman of South West Consolidated Minerals Limited:

30th May, 1980

Brighton Road,

Surrey SM71DE lement. In connection with your Offer for Sale of Ordinary Shares in South West Consolidated Minerals 'Limited ("SWCM") I have pleasure in providing you with the following information:-

SWCM (formerly Nottsvale Limited) was incorporated on 23rd November, 1975; and in February, 1976 licences were acquired to explore and mine a large area of known tin mineralisation totalling some 13 sq. km. near Callington in Comwall, During March 1977 Dundonian Limited ("Dundonian") comhe entire issued share capital of SWCM, and sub-

pieted the ecquisition of the entire issued state capital of SWCM, and succeptify in June 1977 SWCM negotiated a small additional licence area (about 1 sq. km.) to explore and mine near Gunnislake in Devon, four highes from the principal area at Callington.

From the outset the objective has been to explore the areas and, if justified, to promote the development of a prolitable new mining venture, thereby contributing to the revival of Comish tin mining and benefiting the economy through the development of the nation's mineral resources. Accordingly, in the summer of 1977 an exploration programme was started under the supervision of Robertson Research International Limited ("RRI"), Geological and Mining Consultants.

International Limited ("RRI"), Geological and Mining Consultants.

Geological interpretation and exploration results to date have been encouraging, and potential now exists which could lead to the development of three large new mines, producing in the main tin, tungsten and silver. However, before full scale production is started further drilling and feasibility work is necessary, which would include underground development, metallurgical testwork and pilot plant operations.

The Board of Dundonian considers that SWCM provides a good opportunity to participate in UK mineral exploration. Consequently, arrangements have been made to offer Dundonian shareholders and employees, and the public an opportunity to acquire a minority stake in SWCM's share capital. The raising of new capital in this way will enable SWCM to explore and complete feasibility work at two of the three areas of prime interest, and will help SWCM to develop as an independent mining company. To explore and complete feasibility work as appropriate at the third area of prime interest, SWCM has concluded a joint venture arrangement with Amax Exploration of U.K. Inc. ("Amax") under which Amax will bear the future costs.

e costs. SWCM has an authorised share capital of 30,000,000 Ordinary Shares of 10o each-of which 5,500,000 are now being offered for sale at 50p each fully peid. As a result the total issued share capital of SWCM will be increased to 24,000,000 Ordinary Shares of 10p each, and Dundonian's interest will then represent 75 per cent. of the shares in issue, it is Dundonian's intention to retain this holding, and to

continue to support SWCM in the exploration and development of its Comish mining interests. Exploration and Mining Licences
The location and extent of SWCM's licences is shown on Figures 1 and 2. The principal terms of the
licences allow SWCM to explore for a period of years on payment of a fixed annual fee, with the option
of taking up a further licence including the right to mine on payment of annual royalties based on production but subject to a small minimum annual fee, which merges with royalties. Relevant details are as

٠ :	duction but su follows : Location		Exploration		Mining	Annual Royalty on
. 2.7		Approximate Area (Acres)	Period (years)	Licence Fee	Period (years)	Net Smelte Return (%)
• •	Cellington Area Redmoor Mina	illo II was			• •	
-	Biogsters Plantation	3,100	Syears to November 1983	. £10,000 p.a.	42 years to November 2025	3.33
. 1	end Have South Silver Valley	100-	11 yearsto August 1985	£5,000 (single	42 years to . August 2027	3,33
(Quanjelska -		4 yearsto . June 1981	payment) £750 p.a.	42 years to June 2023	3.33

In the Gunnislake areas SWCM has experienced difficulty in renewing one licence and negotiating In the summarate areas system has expenenced difficulty in renewing one increase and negotiating new licences with mineral owners to explore the full extent of the vein structures and the projected extensions to the east. Accordingly SWCM has taken action to protect its interests and applications have been made with a view to obtaining additional licences under the Mines (Working Facilities and Support) Acts 1966 and 1974.

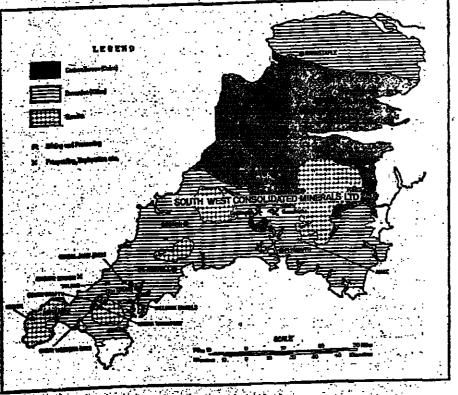


Figure 1, General Location Map

SWCM is considering the desirability of extending its mineral interests in the Callington area, and idjoining land. There is some uncertainty as to the title of a small part of the mineral rights in the Callington area, but this is not likely to have any material effect on future operations. In addition SWCM owns approximately 12 acres of freehold land at Callington which may be required in connection with the future production and treatment of ore in the area.

Tin has been mined in Cornwell since Roman times, but underground mining only started in medieval times when not tin-bearing veins were found near the surface and worked from shallow pits. At the beginning of the eighteenth century mining for copper commenced, and activity reached a peak in the mid-nineteenth century when south-west England was the world centre of base metal production. During this period an important discovery was made of a tin zone beneath a copper zone at Dolcoath mine, which subsequently resulted in it becoming Comwall's deepest and richest tin mine. Similar discoveries were made elsewhere and Cornwall soon became internationally renowned for its deep lode

Towards the end of the ninsteenth century large deposits of copper and tin, capable of low cost extraction, were discovered abroad. Base metal prices fell and many Cornish mines were forced to close as they had insufficient capital to withstand losses. In the case of the mines in the Callington area this event occurred just when capital was most needed to deepen the shafts and improve the plant, to treat tin instead of copper as the zoning changed at depth in common with other Cornish mines.

An additional problem at these mines was the presence of tungsten intermixed with tin. In those days tungsten had no commercial value and was difficult to separate from tin, which often resulted in heavy penalties being incurred on the sale of mixed ore. Such veins were, therefore, never worked with enthusiasm and were if possible left in situ. These difficulties proved to be too great a burden for the mines in the Callington area and they were forced to close in the 1890's.

In recent years the strength of base metal prices, the general political uncertainties abroad, and the heavy infrastructure requirements in developing countries have combined to focus attention on southwest England again. Apart from the old well established operations, SWCM and a number of major mining groups, are now actively engaged in exploration in the area (Figure 1).



Figure 2, Licence Areas and Local Geology

Recent Exploration

FRANCE COMPILED AND DEADER BY ROSERTSON RESEARCH INTO

Prior to RRI involvement SWCM's areas had been investigated by several parties, including the Non-Ferrous Mineral Control during the period 1939-1945, Mackay and Schnellmann Limited in 1963. Dr. C. H. James, ARSM, DIC, BSc, PhD, FIMM in 1965, and C. T. Sweet, ACSM, C.Eng, FIMM in 1967. Following the acquisition of the licences by SWCM a thorough assessment of the prospects was under-taken by RRI, and in the summer of 1977 an extensive programme of exploration was started under RRI on. There follows a copy of the Report from RRI, which covers the exploration programme and

> Llandudno, Gwynedd. North Wales LL301SA

30th May, 1980.

The Directors, South West Consolidated Minerals Limited,

To: Rows Rudd & Co., and

In accordance with your instructions we have prepared the report below on the programme of

exploration carried out under our supervision since 1977 at the mining prospects of South West Consolidated Minerals Limited (SWCM), in south-west England (Figure 1). In 1977 Robertson Research International Limited (RRI) was requested to carry out a preliminary

evaluation of the tin-tungsten potential of two mining prospects held by SWCM near Callington in Cornwall and Gunnislake in Devon, extending in area to approximately 13 sq. km. and 1 sq. km. respectively (Figure 2). Normally in south-west England mineral rights exist in small segregated holdings historically difficult to amalgamete into worthwhile exploration and development areas. The existence of approximately 13 sq. km. at Callington already amalgamated into one area is a valuable factor in itself, particularly in view of the area's past mining history in the 19th and early 20th century.

Previous to our investigations the potential of the area had been emphasized by reports from

several sources, the most important being the Non-Ferrous Mineral Control during the period 1939-1945. Wartime investigations, prompted by an accelerated demand for minerals, were active in the licence areas and were concentrated on proving reserves in and around old workings. Active mining operations may well have resumed had the urgent requirement for minerals not eased with the end of the War.

Following a review of the regional and local geology, old mining records and past reports, RRI outlined a series of exploration targets consisting of both previously known veln deposits, and a number of new prospects in the Callengton area which had no previous history of mining. Postulation of these new lodes was based on geological deduction and the presence of strong tin anomalies which had been located during reconnaissance soil sampling in the mid-sixties. The orientation and geochemical aracteristics of these anomalies suggested the existence of a series of tin bearing east-west vains hitherto undiscovered.

An exploration strategy was formulated to investigate the new prospects and to provide information on extensions of mineralisation around several known deposits. A phased approach was adopted in which low-cost exploration techniques were applied to a wide area, anomalies were highlighted and targets worthy of exploration by more refined, higher-cost methods were identified. Thus at Callington, targets worthy of exploration by more retined, higher-cost methods were identified. Thus at Callington, the areas defined as anomalous in the mid-sixties by surface reconnaissance geochemistry were sampled down to bedrock by auger drilling, and where significant values were confirmed, deeper testing was carried out by percussion drilling to depths of 50m. Several of the targets identified by this approach have been further investigated by diamond drilling to depths of 150m. In addition, at Gunnislake a programme of mine rehabilitation followed by geological mapping, channel sampling and an underground diamond drilling programme has been completed.

Exploration to date has produced encouraging results confirming the discovery of a series of developed tin veins striking east-west in addition to the known lodes at Callington, and has confirmed a level of proven reserves at Gunnislake with every likelihood of both ventical and horizontal extensions

South-west England is formed of three main rock groups, Devonian (killas), Carboniferous (culm), and granitic intrusions. Major granitic intrusions lie in a more or less easterly trending belt, from Lands End to Dartmoor, Evidence points to these isolated granitic bodies being one continuous body at depth connected by a series of buried granitic "ridges", high points of which are represented by intermediately or intrusions. Tin, tungsten and copper mineralisation, located in veins cutting through granite and killas, shows a close spatial relationship to the granitic intrusions

The regional distribution of economic deposits of mineralisation shows a more specific relationship to high points within the overall granite structures and to the buried intermediate ridges, where a c intensity of fracturing within the surrounding rocks has enhanced vein development. The mineral the Kit Hill and Hingston Down intrusives, and thus in an optimum size from a structural viewpoint for vein development. The presence of abundant mineralisation in the area is evident from the ubiquitous presence of old mine workings throughout the region which were established on accessible and easily

By virtue of its size, the Callington area is best divided into three sub-regions for consideration. Exploration results to date suggest that each of these sub-regions could develop into major mining areas

1' Redmoor Mine (Figure 3)

For much of the last century Redmoor was one of the centres of Cornish mining, supporting a subset of independent mines producing copper, tin, lead and silver. Most production dwindled during the 1890's in the wake of low metal prices (following the discovery of large scale tin and copper deposits abroad), and the difficulty of separating out tungsten (of no commercial value in those days) which

The area contains at least fourteen east-west trending tin and copper veins which are intersected in the west by a major north-south crosscourse carrying lead and silver. Historical records show that veins were worked over an average strike length of some 500m, but to a depth of only 200m, which suggests that the mines were just reaching the principal tin zone at the time of their closure. In common with other areas in Cornwall, it seems that the vein structure consists of a copper zone near surface, passing down through a copper-tin zone to a tin-rich zone at depth.

Prior to RRI involvement a thorough assessment of past records and a programme of underground sampling was carried out by a Comish mining engineer, Mr. C. Sweet, ACSM, C. Eng. FIMM. His work indicated that some 200,000 tonnes of tin and tungsten mineralisation remain in the vicinity of the old workings within 250m of the surface, with every likelihood of substantial additional tonnages of ore at depth. Average grades of 1.6 per cent. cassiterite plus 0.85 per cent. wolframite were calculated

In particular, there is the prospect of enriched mineralisation at a depth of about 300m where two of the major lodes in the area, Johnson's Lode and Great South Tin Lode, may intersect. These lodes, which are 1–2m and 3m in width respectively, run parallel in an east-west direction but dip beneath At Redmoor a strike length of 500m with multiple veins and economic grades within 200m of

surface is known from past mining activity. Elsewhere in Comwall tin has been mined successfully at depths of 1,000m. If deeper drilling here confirms the continuation of the lodes with similar grades of ore, the ultimate potential reserves could be several million tonnes.

2 Blogsters Plantation (Figure 3)

This area extends from the lead-silver crosscourse at Redmoor west to Biogsters and beyond, a distance of about 1,500m over a width of 400m. The target is the westerly extension of the group of lodes worked at Redmoor immediately to the east of the crosscourse. It is believed that the east-west tin lodes have been displaced by the crosscourse, and that to the west the lodes are down-thrown and To test this potential an extensive programme of auger sampling and percussion drilling has been

carried out, and a limited programme of diamond drilling was recently completed. The percussion drilling generated 315 samples from 28 holes which were analysed for tin, tungsten, copper, lead, silver, zinc and arsenic. Having identified significant tin, silver and zinc mineralisation, seven diamond drillholes were completed at intervals along a strike length of 1,200m to test the structure up to depths of approximately 150m.

All of the diamond drillholes intersected mineralisation associated generally with elven dykes

which again trend in an east-west direction. In several of these, multiple zones of mineralisation were intersected with the best values obtained as follows :---0-76 per cent. tin and almost an ounce of silver over a width of 2-55m,

-1-42 per cent. tin, 2-13 per cent. zinc and more than an ounce of silver over a width of 1 m. -0-32 per cent. tin, 7-9 per cent. zinc, 0-2 per cent. copper and almost an ounce of silver over a width of 1.2m.

Figure 3, Redmoor Mine and Biogsters Plantation PICLIFIE CONFILED AND DRAWN BY ROBERTSON RESEARCH BITTERNATIONAL LIMITED

Exploration results have therefore confirmed the presence of a series of undeveloped tin bearing as associated with eiven dykes trending sest-west throughout the area. There is every reason to believe that the mineralised structures persist in depth. In common with most Comish lodes the grades of ore vary considerably, and further drilling will be required to predict the overall tin grade. However, the results to date are compatible with the view that a tin grade of 1 per cent, over a width of about 1m may

trained, with high zinc, copper and silver values also present.

The mineralised structures have been identified over a strike length of 1,200m and to a depth of approximately 150m, which gives inferred reserves in the region of 2 million tonnes. If further drilling proves that the mineralisation persists at greater depths then the ultimate reserve potential could be very

It should be noted that the Biogsters Plantation area contains two additional targets for future

1 The presence in the middle of this area of multiple veins at surface could indicate the existence of a granite ridge at depth, raising the possibility of the development of a stockwork vein system in the granite below. Such a system would imply greater volumes of mineralisation, large tonnages and efficient low cost extraction methods.

A further major north-south crosscourse which intersects the area to the west of Blogsters could contain lead and silver in a similar manner to the crosscourse at Redmoor. Such a lode could support a low tonnage high grade lead and silver mine.

3 Haye South (Figure 4)

This area lies approximately 1 km. to the south of Redmoor, on the projected extension of the lead-silver crosscourse. The target was an east-west group of tin-bearing lodes intersecting the crosscourse with resultant enriched mineralisation as was the case at Redmoor.

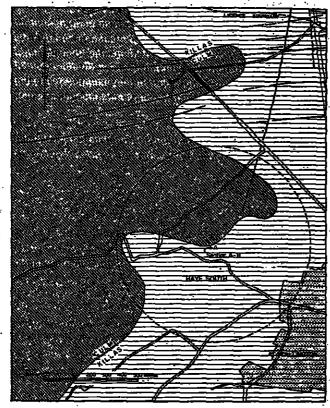
To test this potential a programme of auger sampling and percussion drilling was undertaken, followed by diamond drilling in key areas. The percussion drilling generated 87 samples from 8 holes which were analysed in particular for tin, lead, zinc and silver. Five diamond drillholes were completed with samples being taken for analysis at 2m. intervals. Where high metal values were obtained, the core was split longitudinally and analysed in detail.

Exploration results from percussion drilling identified a strongly mineralised structure containing high tin and silver values over a strike length of about 250m. In this case, however, deeper diamond drilling indicated that the mineralisation did not follow the expected pattern of vertical east-west trending tin veins, and confirmed that the mineralisation remained richer close to the surface. Subsequent discussions concerning this area have led to a re-appraisal of exploration results and a new geological

interpretation has recently emerged.
It has recently been recognised that low angle thrusting is a feature of the contact between Devonian and Carboniferous rocks in south-west England. Such a sub-horizontal thrust plane would be a highly favourable location for mineralisation, and it is suggested that the mineralisation at flaye South could occupy a series of sub-horizontal fractures running parallel to the contact between the rock types. Careful re-examination of the percussion and diamond drilling results supported this theory with the comparatively high tin and silver values close to surface being correlated well between holes and traverses. The best drill hole encountered more than 0.5 per cent, tin and five outces of silver over a 3m. ersection (Figure 4).

Mineralised structures of this nature could cover a large pert of the Haye South area in view of the rock types present. Confirmation, by extensive drilling, of the sub-horizontal plane of tin and silver mineralisation could lead to the development of a major mine employing low cost extraction methods. To date only 15 per cent, of the Callington Area has been explored. Whilst outstanding potential

exists in the three sub-regions discussed above, there are further good prospects which warrant exploration in due course. These include Silver Valley, Silver Hill, Florence, Prince of Wales, Lady



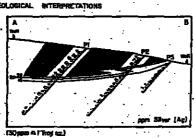


Figure 4. Haye South FIGURE COMPILED AND DRAWN BY ROBERTSON RESEARCH INTERNATIONAL LIMITED

Gunnislake Area

The Gunn ke area contains at least six vein structures in which tin-tungsten mineralisation is known to exist at combined grades in excess of 1 per cent., and past work has established a modest level of reserves. These deposits show strong indications of extensions to the known body of mineralisation, in part capable of exploration by the continuation of presently accessible underground workings. All of the mineralised structures were investigated as far-as surface and underground access would permit in the first instance. However, for reasons of cost-effectiveness it was decided to test the potential of the area by concentrating first on one lode, indicative of the sett, with the objective of confirming stated reserves and indicating sufficient extensions to justify a modest mining operation.

To date the mine workings have been rehabilitated, and underground a programme of geological ping, channel sampling and diamond drilling has been completed. This work has contirmed the level of indicated reserves in the immediate vicinity of the old workings at approximately 37,000 tonnes with a combined tin and tungsten grade of some 1.4 per cent, and infetred reserves of some 80-90,000 tonnes, possibly of a similar grade with extensions at depth most likely. In addition to the work underground, an extensive programme of auger and percussion drilling from surface has been completed. The results have shown that mineralisation extends at least 325 metres to the east of the limit of present mine workings. This mineralisation is probably contained within an easterly plunging ore-shoot typical of the region and its presently undetermined lateral extent at depth may be considerable.

Some preliminary mineral processing testwork showed that good recoveries are attainable using convenional gravity and frost flotation techniques. While concentrate grades were low in these preliminary test runs, the overall recovery of values and production of saleable concentrates of tin and tungsten from the Gunnislake area is expected to be achieved following further detailed testwork.

The south-west of England has a tradition of mining for tin and base metals, and in SWCM's areas the grades of ore inferred from past work and recent sampling are in excess of 1 per cent. combined tin and tungsten. Grades in certain key areas are yet to be proven, but on present information it appears that production grades after dilution would be commercially viable. In addition, recent drilling has indicated that silver and zinc may well be important products of a successful mining venture.

By its nature and geology Cornish mining does not lend itself to the proving of large reserves in advance of operation. For reasons of cost, beyond a certain point, production tends to go hand-in-hand with exploration and development. However, exploration results to date suggest that intered reserves are in excess of two million tonnes, with the potential for considerably greater tonnages, possibly in the

multi-million tonne range, on proving the lateral and depth extensions of known lodes.

The Callington licence is unique by virtue of its size. To date only some 15 per cent. of the area has tine Latington licence is unique by virtue or its size. To date daily some 10 per cert. Of the see has been explored, but three outstanding prospects have already been identified. Each one of these, Redmoor Mine, Blogsters-Plantation and Haye South could develop into a major nine in its own right. Smaller prospects such as Silver Valley, Silver Hill, Gunnislake and others, could provide valuable additional ore for a mine which may be established at any one of the three larger opportunities above.

additional ore for a mine which may be established at any one of the three larger opportunities above.

The interests of SWCM offer the opportunity for possible future development of tin, tungsten, zinc and stiver mining operations in a stable political climate. This, together with the existence of an established infrastructure, is worth a great deal in economic terms when compared to the cost of new mine development in overseas tin producing countries such as Nigeria, Malaysia or Bolivia in these countries. the cost of establishing a new mine might well be three or four times more expensive than in south-west England for an equivalent sized operation. Furthermore, from an operating point of view, Comwall has the great advantage of a skilled man-power resource and provides a working environment which is attractive to senior technical management.

ROBERTSON RESEARCH INTERNATIONAL LIMITED Geological & Mining Consultants

The objective of SWCM is to further explore, develop and bring into early production the several ects identified by excloration to date. In planning tuture work it is possible to consider Redmoor Mine and Biogeters Plantation together because the latter area is on the westerly extension of the former, and development of the two together may prove to be feasible, working underground from Redmoor and striking towards the west. Have South, however, requires separate consideration in view of the quite different sub-honzontal nature of the mineralised structure.

At Redmor and to the west, a phased programme of diamond drilling to depths of approximately a00m; will be completed. The aim is to intersect the main lodes at depth to establish the width of lodes and grades of one; with the object of program the much larger potential reserves indicated by RRI. This will be followed, it results so justify, by full tessibility work which will include more underground lopment, metallurgical testing, and pilot plant operations to refine processing techniques.

At Have South, an extensive programme of regional geochemistry and rotary percussion drilling is planned to test the full lateral extent of the tin and silver mineralisation. Any further encouraging results: here will also lead to feesibility work, including further drilling to fully delineate the mineralised structure, metallurgical testwork to maximise recovery of the minerals present, and pilot plant operations in advance

Other areas within the SWCM licences, as yet unexplored, will gredually be covered by regional conneissance. Initially blanket soil geochemistry and geophysics will be interpreted in the light of mineral zoning in order to pinpoint further diamond drilling targets

Potential Scale of Operations

The eventual scale of operations cannot be predicted until full feasibility work is well advanced in the licence areas, However, if further exploration proves the potential reserves at Redmoor Mine and Stoosters Plantation, it would indicate that each area may be capable of producing in excess of 600 tomes of one per day. Such an operation would be one of the largest underground tin mines in the world, providing the market with substantial quantities of tin metal per annum, plus tungsten, zinc and

Similarly, it is not possible at this stage to predict the potential scale of operations at Haye South. However, if the lateral extent of the sub-horizontal structure persists over an area of 1 sq. km. (about 8 per cent. of the licence area) with an average width of 5m, then extraction at the rate of 2,000 tonnes per day may be feasible. Depending on grades a large tonnage low cost mine of this nature could also be a r tin and silver broducer. * :::

It is clear that the development of one or more major new mines would provide a considerable boast to local employment with the creation of several hundred new jobs. In addition, production on this scale would result in substantial benefits to the U.K. economy and provide a significant proportion of the annual tin requirements of British industry. Financial Considerations As a result of the Offer for Sale, SWCM considers that it will have sufficient capital to carry out further exploration and feasibility work as appropriate in its licence areas, including the main prospect

at Redmoor Mine and Biogeters Plantation but excluding Haye South, Based on the scale of operations contemplated this may cost in the region of £3 million.

To finance the exploration and development at Haye South, which may itself amount to £3 million or more, SWCM has concluded a joint venture arrangement with Amax under which Amax will bear all exploration and feasibility costs in return for a 50 per cent. interest in the Haye South prospect. More details of this agreement are given in the next section.

To encourage mineral exploration the Government has established a scheme of financial assistance for approved projects. It is relevant that to date SWCM's exploration programme has been approved for grant purposes under the Mineral Exploration and Investment Grants Act 1972. This entities SWCM to claim 35 per cent. of qualifying expenditure, and it is the intention to continue working under the auspices of this scheme. Subject to certain conditions, grants are generally written off if an exploration project proves abortive, but are repaid over a period of years out of future revenue if a project proves

SWCM estimates that it requires approximately £2 million over the next two years to carry out the planned programme of exploration and development in its licence areas. Feesibility work at Redmoor Mine, Blogsters Plantation and Haye South is estimated to take between two and three years to complete. and thereafter additional capital of £12-15 million may be required to commence production on a commercial scale. At that time SWCM may endeavour to finance such costs by a combination of issuing further share capital and raising term finance from external sources, including possibly U.K. Government or E.E.C. assisted loans. SWCM does not expect to earn significant income from its mining interests until full scale commercial production starts.

Joint Venture Arrengements

SWCM and Amax have agreed to explore, and if appropriate to mine, the Haye South prospect jointly. Several phases of intensive exploration leading to full feasibility are planned, the costs of which will be borne entirely by Amax. In return Amax will earn the right to a 50 per cent. interest in Haye South and the project will be maneged with equal representation from both parties. Amax has the right to withdraw prior to the completion of full feasibility work, in which case 100 per cent. of Haye South

reverts without cost to SWCM. Once a decision is taken following feasibility to go into full scale production both parties will contribute equally to meet the capital costs. However, SWCM has the option to require Amax to meet all capital costs, and in these circumstances SWCM's interest in Haye South would be progressively diluted but it cannot fall below a 15 per cent. carried interest in the project. Provision is also made for the mine to be managed under a joint operating agreement, the terms of which would be finalised by the parties at the appropriate time.

Tin, tungsten and zinc are base metals which are vital to modern industry. Silver is a precious metal widely used in jewellery apart from its industrial applications. The continuing demand for these metals provides SWCM with a ready market for all its potential output. In the immediate future, therefore SWCM intends to concentrate on bringing the areas into early production.

SWCM plans to develop as an independent mineral resources company, and will from time to time consider other opportunities should the terms and prospects appear attractive. At present RRI are vestigating a number of other areas for SWCM which are mainly in Wales and south-west England and which were actively mined for gold many years ago. The aim is to establish whether any of these areas may be commercially viable in the light of the prevailing gold price. SWCM has no rights in these areas at present, but if encouraging results are obtained it will endeavour to negotiate suitable licences with the Crown.

Proceeds of the Offer for Sale

The proceeds of the issue will amount to £2,750,000 out of which the expenses of the issue totalling approximately £230,000 will be paid. Further amounts from the proceeds will be applied to meet exploration and development expenditure in the Callington and Gunnislake areas over the next two to three years. Funds not immediately committed to the exploration programme will be invested for the benefit of SWCM to increase the total resources available for future exploration and development.

Directors and Management

Max Robert Lewinsohn, FCA, ATII, aged 33 is the Chairman of SWCM. He is a Chartered Accountant and Principal of The Maximillian Partnership, Chartered Accountants, He was appointed Chairmen in 1977, and is also Chairman of Dundonian, the parent company of SWCM. He is a member of

the Cornish Chamber of Mines and has been involved in Cornish mining since 1974.

Gerald Crosland Pengilly, MSE, ACSM, C.Eng, FIMM, aged 55, is Managing Director of SWCM. He is a Mining Engineer and the former Managing Director of South Crofty Limited, for whom he worked from 1963 to 1979 running the South Crofty and Pendarves tin mines in Comwall. He joined the

Worked from 1903 to 1979 furning the South Crony and Pendarves on Interest Comment. He joined the Board of SWCM at the beginning of 1980, and is a former Chairman of the Comish Chamber of Mines.

He is also a Governor of the Camborne School of Mines.

Donald George Neville, LLB, aged 49, is the Director responsible for legal affairs. He is a Solicitor and a partner in Messrs. Cardales, Solicitors. Formerly a Director of International Systems Research Limited, a management consultancy company, he joined the Board in 1978 and is also a Director of

Ronald William Potts, TD, JP, aged 52, is an Executive Director of SWCM. He is a retired LL-Colonel, serving with the Duke of Comwall's Light Infantry (TA). He joined the Board in 1977 and is a member of the Council of the Comish Chamber of Mines. He has been actively involved in Comish mineral exploration since 1970, both as a director and a consultant to several exploration projects. Richard Michael McNeil Williams, FCA aged 35, is the Director responsible for financial affairs. He

is a Chartered Accountant and partner in Messrs. Senriches, Chartered Accountants. He joined the Soard in 1979 and is also a Director of Dundonian.

Geological and Mining Consultants

RRI is one of the largest firms of geological and mining consultants with offices in the U.K., Australia, Canada, U.S.A., Singapore and Indonesia, It has considerable experience of tin and tungsten mining in most major producing countries and has undertaken a number of specific assignments in

The members of the p	rofessional team which has been work		rogramme are as follows:
Name	Qualifications	Profession	Position -
Dr. H. R. Bichan	BSc. PhD, FIMM, MAIMM .	Geologist	Director of RRI-Minerals
J. L. Gaskell	BSc, MIMM	Geologist	Head of Mineral
		·	Assessment Unit
P.S. Bridges	BSc, MSc, DIC, MIMM	Geologist	Senior Geologist
J. Emberton	BSc, FGS, MIMM	Geologist	Senior Geologist
E Daniell ·	ACSM, MIMM, MAIMM	Mining Engineer	Senior Mining Engineer:
D. Jordan	BSc, MIMM	Mineral Processing :	Head of Mineral Process
		Engineer	Studies Unit -

Risk Factors : Investment in mineral exploration is speculative. The exploration and development of mineral resources requires substantial investment. Such investment involves a degree of risk and results cannot be predicted. The factors to be taken into account include the following :

(a) The nature and geology of Coroish mining preclude the proving of substantial reserves in advance of operation (b) Although inferred reserves are stated to exceed two million tonnes in the Callington and

Gunnisleke areas the ore may prove not to be economically recoverable because of factors which cannot be foreseen until further work is comple The unexplored parts of the Callington area may after investigation prove not to contain any

economically recoverable reserves. As a small mining company, SWCM may be unable to finance the development of a major

nine. In this event, SWCM may be forced to part with a proportion of its beneficial interest to achieve full commercial production. The market prices of rin, tungsten, zinc and silver are volatile (Figure 5). Apart from industrial

supply and demand, many external factors which cannot be foreseen may have an impact on the market price of these minerals.

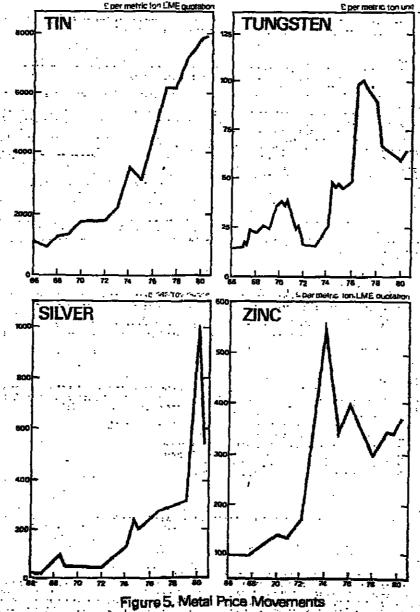
Planning permission to mine in the main areas would be required. Much of the ficence area is zoned for mineral development but permission to mine cannot be obtained in advance.

Planning permission to explore the main areas has been granted and subsequently extended.

There is set out in Appendix 1 a copy of the Report by the Auditors and Reporting Accountants ig the financial results of SWCM for the feur years ended on 31st March 1980, and a Pro Forma Balance Sheet prepared on the basis that the new shares have been taken up under the Offer for Sale. The accounts indicate that a little revenue has been earned from the processing of minerals. This pattern is likely to continue whilst exploration and development takes place.

No dividends have been paid by SWCM since the date of its incorporation, SWCM's policy with regard to the distribution of future profits will be determined in the light of circumstances once a profitable mining venture has been established.

SWCM shares office accommodation with its parent company Dundonian at Downs House Brighton Road, Banstead, Surrey which comprises a 4,000 sq. ft. self-contained office building. SWCM also has a local office at Tredethy, Bodmin, Cornwall, which is shared with the Tredethy Estate as part of the service agreement with Mr. R. W. Potts. As exploration progresses, however, SWCM plans to establish offices on site in the Callington area. Yours faithfully, MAX LEWINSOHN,



Financial Times Monday June 2 1980

Appendix i The following is a copy of the Reportitions Barks, Cohen, Fine and Partners, Chartered Accountants 1 14 John Princes St London W1M 9HB. 30th May, 1980.

. To: Rowe Rudd & Co...

South West Consolidated Minerals Limited.

We have examined the accounts of South West Consolidated Minerals Limited (SWCM) for the period from 1st April, 1976 to 31st March, 1980 which we audited and which were prepared under the historical cost convention.

The summarised Profit and Loss Accounts, Balance Sheets and Statements of Source and Application of Funds set out below are based on the audited accounts. No adjustments thereto are considered appropriate. In our opinion the summaries and the notes thereon give, under the hi

w of:

1 The state of affairs of SWCM at the datas stated.

2 The profits of SWCM attributable to the shareholders for the periods stated.

3 The source and epolication of funds of SWCM for the periods stated.

4 The Per-Forms Ralance Shart of SWCM following completion of the Offer to

Balance Sheets	· · · . · •		V	السيدانية مواوي البيد	
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	Note	1977 £	1978 £	្រង់នេ	1989 ·
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Promote Library	V				
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Delia Officialit		19231			
	• •:	. 25,572	3,435	.3,740	7,811
		·			
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•					·
		43,296	297,719	1,531,137	3,845,196
Profit and Loss Accounts					
		•	Years end	led 31 st Marc	h.
	Note		197B -	1979	1980
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		19,078	13,338	14,426	
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Profit efter Texation		4.602	462	742	2.217
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Statement of Socree and Application of L	unds		صحد	•	
	unds	1977 E	Yeets end	led 31st Marc 1979	h, 1980 £
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues	unds	1977	Yeens end	led 31st Marc 1979 E 742 300,000	h, 1980 £
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Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants	unds	1977 \$ 4,602 20,000 18,694	Yests and 1978 462 — 253,961	742 300,000 95,596 (88,091)	1980 £
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants	unde	1977 4,602 20,000	Yests and 1978 £	742 300,000 95,596	1,980 £ . 2,217 36,835
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants (folding Company	Unde	1977 \$ 4,602 20,000 18,694 43,296	Yests end 1978 482 253,961 254,423	742 300,000 55,586 (68,091) 328,247	1980 £
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants folding Company Application of Fund: Additions to Fixed Assets	unde	1977 £ 4,602 20,000 18,694 43,296	Yests and 1978 462 — 253,961	742 300,000 95,596 (68,091) 328,247	1980 ± 2,217 36,835 235,985 275,037
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants (folding Company	Unde	1977 \$ 4,602 20,000 18,694 43,296	Yests end 1978 482 253,961 254,423	742 300,000 55,586 (68,091) 328,247	1980 £
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants folding Company Application of Fund: Additions to Fixed Assets	Unde	1977 £ 4,602 20,000 18,694 43,296	Yeens end 1978 £ 462 253,961 254,423 215,323	742 300,000 95,596 (68,091) 328,247 233,543 3,000	1980 £
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants folding Company Application of Fund: Additions to Fixed Assets	Unde	1977 \$ 4,602 20,000 18,694 43,296	Yests end 1978 482 253,961 254,423	742 300,000 95,596 (68,091) 328,247	1980 ± 2,217 36,835 235,985 275,037
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants folding Company Application of Fund: Additions to Fixed Assets	Unde	1977 £ 4,602 20,000 18,694 43,296	Yeens end 1978 £ 462 253,961 254,423 215,323	742 300,000 95,596 (68,091) 328,247 233,543 3,000	1980 £
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants (folding Company Application of Fund: Additions to Fixed Assets Capital Costs horsess/(Decrease) in Working Capital	unde	1977 £ 4,602 20,000 18,694 43,296 58,833	Yests end 1978 482 253,961 254,423 215,323	742 300,000 95,596 (68,091) 328,247 233,543 3,000 236,543	1980 £ 2,217 36,835 235,985 275,037 278,689 30,000 308,689
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants Holding Company Application of Fund: Additions to Fixed Assets Capital Costs Increase/(Decrease) in Working Capital Arising from Movements in:	unde	1977 £ 4,602 20,000 18,694 43,296 58,833 (25,537)	Yeens end 1978 482 253,961 254,423 215,323 215,323 39,100	742 300,000 95,596 (88,091) 328,247 233,543 3,000 236,543 51,704	1980 £
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants (folding Company Application of Fund: Additions to Fixed Assets Capital Costs horsess/(Decrease) in Working Capital	Unde	1977 4,602 20,000 18,694 43,296 58,833 (25,537)	Yests end 1978 482 253,961 254,423 215,323	742 300,000 95,596 (68,091) 328,247 233,543 3,000 236,543	1980 £ 2,217 36,835 235,985 275,037 278,689 30,000 308,689
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalisation Issues Mineral Exploration Grants Holding Company Application of Fund: Additions to Fixed Assets Capital Costs horease/(Decrease) in Working Capital Arising from Movements in: Debtors	Unde	1977 4,602 20,000 18,694 43,296 68,833 (25,537)	Yeens end 1978 £ 462 	742 300,000 95,596 (68,091) 328,247 233,543 3,000 236,543 91,704	1980 ± 2,217 36,835 235,985 275,037 278,689 30,000 308,669 (33,632) (43,988) (6,598)
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants (folding Company Application of Fund: Additions to Fixed Assets Capital Costs horasse/(Decrease) in Working Capital Arising from Movements in: Debtors Creditors	Conde	1977 4,602 20,000 18,694 43,296 58,833 (25,537) 35 (5,781) (19,791)	Yeens end 1978 £ 462 253,961 254,423 215,323 39,100 16,963 2,749 19,388	742 300,000 95,596 (68,091) 328,247 233,543 3,000 236,643 91,704 92,009 1,819 (2,124)	1980 £
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants (folding Company Application of Fund: Additions to Fixed Assets Capital Costs horasse/(Decrease) in Working Capital Arising from Movements in: Debtors Creditors	Since	1977 4,602 20,000 18,694 43,296 68,833 (25,537)	Yeens end 1978 £ 462 	742 300,000 95,596 (68,091) 328,247 233,543 3,000 236,543 91,704	1980 ± 2,217 36,835 235,985 275,037 278,689 30,000 308,669 (33,632) (43,988) (6,598)
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Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants (folding Company Application of Fund: Additions to Fixed Assets Capital Costs horasse/(Decrease) in Working Capital Arising from Movements in: Debtors Creditors	Unde	1977 4,602 20,000 18,694 43,296 58,833 (25,537) 35 (5,781) (19,791)	Yeens end 1978 482 253,961 254,423 215,323 39,100 16,963 2,749 19,388 39,109	1979 £ 742 300,000 \$5,596 (88,091) 328,247 233,543 3,000 236,543 51,704 92,009 1,819 (2,124) 91,704	1980 £
Statement of Source and Application of I Source of Funds: Profit after Texation Capitalization Issues Mineral Exploration Grants Holding Company Application of Fund: Additions to Fixed Assets Capital Costs Increase/(Decrease) in Working Capital Arising from Movements in: Debtors Creditors Bank Balances	Unide	1977 4,602 20,000 18,694 43,296 58,833 (25,537) 35 (5,781) (19,791)	Yeens end 1978 £ 482 	742 300,000 95,596 (88,091) 328,247 233,543 3,000 236,543 91,704 92,009 1,819 (2,124)	1980 £
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Statement of Source and Application of I Source of Funda: Profit size Texation Capitalization Issues Mineral Exploration Grants Holding Company Application of Fund: Additions to Fixed Assets Capital Costs Arising from Movements in: Debtors Creditors Creditors Bank Balances Pro Forms Balance Short (Note 11) Toted Assets Lurent Assets Lurent Assets Lurent Assets	unds .	1977 4,602 20,000 18,694 43,296 58,833 (25,537) 35 (5,781) (19,791)	Yeens end 1978 £ 462 _ 253,961 254,423 215,323 39,100 16,963 2,749 19,388 39,100 £ 2,599,446 7,811	742 300,000 95,596 (88,091) 328,247 233,543 3,000 236,543 91,704 92,009 1,819 (2,124)	1980 £
Statement of Source and Application of I Source of Funda: Profit after Texation Capitalization Issues Mineral Exploration Grants Holding Company Application of Fund: Additions to Fixed Assets Capital Costs Increase/(Decrease) in Working Capital Arising from Movements in: Debtors Creditors Creditors Bank Balances Pro Forme Balance Short (Note 11) Toted Assets Lurent Assets Lurent Assets Lurent Assets	Unde	1977 4,602 20,000 18,694 43,296 58,833 (25,537) 35 (5,781) (19,791)	Yeens end 1978 £ 462 _ 253,961 254,423 215,323 39,100 16,963 2,749 19,388 39,100 £ 2,599,446 7,811	742 300,000 35,586 (88,091) 328,247 233,543 3,000 236,543 51,704 92,009 1,819 (2,124) 97,704 £ 3,773,561	1980 £
Statement of Socrey and Application of I Socres of Funds: Profit siter Taxation Capitalization Issues Mineral Exploration Grants Holding Company Application of Fund: Additions to Fixed Assets Capital Costs herease/(Decrease) in Working Capital Arising from Movements in: Debtors Creditors Bank Balances Pro Forme Balance Short (Note 11) Total Assets Current Assets Current Liabilities	Unde	1977 4,602 20,000 18,694 43,296 58,833 (25,537) 35 (5,781) (19,791)	Yeens end 1978 £ 462 _ 253,961 254,423 215,323 39,100 16,963 2,749 19,388 39,100 £ 2,599,446 7,811	742 300,000 95,596 (88,091) 328,247 233,543 3,000 236,543 51,704 92,009 1,819 (2,124) 91,704	1980 £
Statement of Source and Application of I Source of Funda: Profit after Texation Capitalization Issues Mineral Exploration Grants Holding Company Application of Fund: Additions to Fixed Assets Capital Costs Arsing from Movements in: Debtors Creditors Creditors Bank Balances Pro Forms Balance Sheet (Note 11) Toted Assets Lurent Assets Lurent Liebilities let Assets there Capital		1977 4,602 20,000 18,694 43,296 58,833 (25,537) 35 (5,781) (19,791)	Yeens end 1978 £ 462 _ 253,961 254,423 215,323 39,100 16,963 2,749 19,388 39,100 £ 2,599,446 7,811	742 300,000 35,586 (88,091) 328,247 233,543 3,000 236,543 51,704 92,009 1,819 (2,124) 97,704 £ 3,773,561	1980 £
Statement of Socrey and Application of I Socres of Funda: Profit after Texation Capitalization Issues Mineral Exploration Grants (folding Company Application of Fund: Additions to Fixed Assets Capital Costs herease/(Decrease) in Working Capital Arising from Movements in: Debtors Bank Balances Pro Forme Balance Sheet (Note 11) Total Assets Lurrent Liebilities Larent Capital leserves have Capital leserves		1977 4,602 20,000 18,694 43,296 58,833 (25,537) 35 (5,781) (19,791)	Yeens end 1978 £ 462 _ 253,961 254,423 215,323 39,100 16,963 2,749 19,388 39,100 £ 2,599,446 7,811	742 300,000 95,596 (68,091) 328,247 233,543 3,000 236,543 91,704 92,009 1,819 (2,124) 91,704 2,591,536 6,385,196 2,400,000 3,392,216	1980 £
Statement of Source and Application of I Source of Funda: Profit after Texation Capitalisation Issues Mineral Exploration Grants Holding Company Application of Fund: Additions to Fixed Assets Capital Costs horsese/(Decrease) in Working Capital Arising from Movements in: Debtors Creditors Bank Balances Pro Forms Balance Sheet (Note 11) fixed Assets Larrent Assets Larrent Assets Larrent Capital lesserves lesserves lesserves lodding Company		1977 4,602 20,000 18,694 43,296 58,833 (25,537) 35 (5,781) (19,791)	Yeens end 1978 £ 462 _ 253,961 254,423 215,323 39,100 16,963 2,749 19,388 39,100 £ 2,599,446 7,811	742 300,000 95,595 (68,091) 328,247 233,543 3,000 236,543 51,704 92,009 1,819 (2,124) 91,704 2,109 1,219 (2,124) 91,704 2,109 1,219 (2,124) 91,704 2,109 1,219 (2,124) 91,704	1980 £
Statement of Socrey and Application of I Socres of Funda: Profit after Texation Capitalization Issues Mineral Exploration Grants (folding Company Application of Fund: Additions to Fixed Assets Capital Costs herease/(Decrease) in Working Capital Arising from Movements in: Debtors Bank Balances Pro Forme Balance Sheet (Note 11) Total Assets Lurrent Liebilities Larent Capital leserves have Capital leserves		1977 4,602 20,000 18,694 43,296 58,833 (25,537) 35 (5,781) (19,791)	Yeens end 1978 £ 462 _ 253,961 254,423 215,323 39,100 16,963 2,749 19,388 39,100 £ 2,599,446 7,811	742 300,000 95,596 (68,091) 328,247 233,543 3,000 236,543 91,704 92,009 1,819 (2,124) 91,704 2,591,536 6,385,196 2,400,000 3,392,216	1980 £

NOTES inting Policies of SWCM:

The principal accounting policies which have been applied consist act out in this report are;

ant the invoiced amounts of mineral sales to third parties excluding value added tax b. Depreciation—Depreciation is calculated to write off the cost of the assets on the following Licences and Development Costs

None

Primarily 121% reducing Printerior Printerior Printerior Deferred Texation...No provision has been made for d arred taxetion as no liability is expected to arise

in the foreseable future. The lability which would arise if the fixed assets were disposed of at the am stated in the accounts is £1,027,664. 500 200

Mining Licences and Development Costs: At Cost

Surplus arising on valuation Net Book Value at 31st March, 1980

2,977,193 3,773,561

500,000

165,000

31st March

The valuation by the Directors in April 1979 was based upon the report of Robertson Research International Limited, Geological and Minimo Consultants dated Sentember 1978, having regard to the mineral reserves proven and inferred and taking account of the likely costs of extraction.

At 31st March, 1980 the authorised, issued and fully paid share capital of SWCM was: Authorised-5,000,000 Ordinary Shares of 100 each

Issued and fully paid— 1,650,000 Ordinary Shares of 10p each 4 Reserves

£ £ Capital Reserves
Surplus assing on vi 2.977.193 2,524,193 8,023 3.107,216

5 Holding Company npany during the period of this report was Dundonian Limited, incorporated in

6 Mineral Exploration Grants Mineral Exploration Grants represent the total amount claimable in accordance with the Mineral Exploration and Invasiment Grants Act 1972 in respect of expenditure incurred to 31st March, 1980. Such Grants may be renavable if exploration is successful.

7 Profit and Loss Aco

Year ended 31st Merch, 1977 1980 £. Cost of Sales includes Bank inter Plant hare 7,150 129 475

8 Taxation SWCM has not incurred a taxation charge due to the availability of capital allowances arisi

3 No dividends were paid to shareholders in the relevant accounting periods. 10 No accounts for submission to members have been prepared subsequent to 31st March, 1980.

11 Pro Forma Balanca Sheet a Balance Sheet has been prepared on the basis of the sudned accounts of SWCM at 31st Marci 1980, as adjusted for .

(ii) the increase in capital of £1,685,000 which rook place on Z2nd May, 1980;
(iii) the increase in capital of £550,000 which results from the Offer for Sale;
(iii) the expenses of the Offer for Sale estimated to amount to £230,000. Yours faithfully.

BERKE, COHEN, FINE and PARTNERS, Characted Accountants

*15th November, 1978 - 8th December, 1978 - 22nd Marc 1980

Statutory and General Information . 1 Share Capital	
(a) At present £3,000,000 in Ordinary Share (b) After Completion £3,000,000 in Ordinary Share (c) The changes which have occurred in the authorised and incorporation are as follows:	enfilmench commons
Data	Authorised Issued and share capital fully paid
23rd November, 1975	£

Appendix 2

22nd May, 1880

(d) In March 1977 Dundonian completed the acquisition of the entire issued share capital of SWCM.

On 30th June, 1978 the capital of the Company was sub-divided into shares of 10p each from shapes of In December 1978 Burma Mines Limited and Planned Savings (Holdings) Limited (then Brieve Limited)

12 . .

500:000

165,000

. v.

In December 1978 Burma Mines Limited and Planned Savings (Holdings) Limited (then Brieve Limited) subscribed in cash at £2.00 per share for 150,090 Ordinary Shares of 10p arch.

On 1st May, 1980 Dundonian abquired the said holding of 150,000 Ordinary Shares in return for an issue of shares in Dundonian. SWCM is now a wholly owned subsidiary of Dundonian.

All issues of shares other than those made in June 1978 and in May 1980 have beam made for cash.

Dundonian intends after completion of the Offer for Sale to transfer 500,000 of the shares in SWCM held by it to the Vandors of the share capital of SWCM on the occasion of its patchase by Dundonian, is satisfaction of Dundonian's obligation, agreed as part of the amangement for the sale of such capital, to account for 10 per cent, of any notional profit arising on the diffusion of flundonian's holding in SWCM. Thereafter Dundonian will be the beneficial owner of 18,000,000 shares in SWCM (75 per cent, of the issued share capital of SWCM).

2. Subsidiaries SWCM has no subsidiaries.

22nd Mey, 1980

2 Working Capital Zeptes! ving the Offer for Sale, the Directors of SWCM consider that SWCM Will have sufficient worlding capital

FINANCIAL DIARY

The following is a record of the principal business and financial const and services engagements during the week. The Board meetings are mainly become for the phripose of considering dividends and official indications are, in the substitution of the principal concerned are intering or devices to the substitution of the principal concerned are intering or devices to the substitution of the payments—finals: The sub-divisions shown below are based mainly on last properly in the payments of th

COMPANY MEETINGS.

COMPANY MEETINGS.

Com. Br. of the Pear Last 107-112.

Leadening Street St. 11.00

Currys, 46-50, Unified the Road, Saling, W. Tanks Coned, invs. 12.30

Dunlon, Cassillon, Sury Street, St. James, Sr. J2.00

Hosking and Norton, Mediand Hotel, New Street, Birminghem, 12.30

Street, Birminghem, 12.30

Boands MEETINGS.

Finals: Gates (Frenk G.)
Govett Europeup Fitt
Marthorough Property
Zentrians

2 1980

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SWEET REPRESENT

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Grt. Northern 1997, 4-apr.

Too. 1907, 1-75 apr.

Location - 1-75 apr.

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Richardson Marriell 20cts.
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7.280 7.280 Senior Eng. 0.750 Stockholders lev. Tat. 4 pcFf. 1.575pc. Do. 5oppl. 1.75pc. Do. 5-pcft 1.525pc Trustees Com. 4-pcff. 1.875pc Volvo A. B. A. and B. S&T Sc.

Volvo A, B. A and P SKT 8

TOROGROW

COMPANY MEETINGS

ASSOCIATION, 100, Repent Street, W. 12.00

Association Street, W. 12.00

Association Street, W. 12.00

Association Street, W. 12.00

South Company 12.00

South Comp risons and Crosheld and Textile.

Horton, Midiand Hotel, New Inglown, 12-30
Horton, Bank Of the New Last 277-30
Horton lo Tiney 3.60 Illis Faber 7.50 Tilbs and Goldstein Barriogton House, Words Street, 12.30 Owen Owen, Clariton Square, Liverpool, More Street, W. 12.00 Owen Owen, Clariton Square, Liverpool, Marrian Rovel Exchange, Chartered Institute, 20, Aldermanbury, C. 12.00 GR and Dolles, Baltic Exchange, 14-20, St. Marry Ave, EC. 12.00 Harrison (T. C.), 53-67, London Road, heefiled, 2.00 Western Consultation, Canada Street, 12.13 Wikingon Western, Canada Street, EC. 12.13 Wikingon Western, Canada Street, Canada Street, Canada Street, Canada Street, Canada Street, Canada Street, Modern Engineers of Bristol, Discon Road, Strater, GazModern Engineers of Bristol, Discon Road, Stratingston, Gristol, 12.00
Feest Ass. High Holborn, WC, 12.00
Feest Mackingosh, Rowestrees Theater, Lt. Macking Road, York, 5.00
Utd. Carriers, Overstone Solarium, Ecton Physics, Systell, Northands, 12.00
Fluxter, McThands, 12.00
Fluxter, McGardin, McCThands, 12.00
Fluxter, McGardin, 12.00
Fluxter, McGard 11.30 BOARD MEETRIGS Minuterer Constitution of the Constitution of

COMPANY METINGS—
Aperthaw and Bristol Channel Portland Cement, Angel Most, Cardiff, 12.30
Hill ICharles) of Bristol, 129, Cumberland Roas, Bristol, 110.00
Hill Charles) of Bristol, 129, Cumberland Roas, Bristol, 110.00
Histolian Centre Brominghou, 12.00
Laporte, Charlered International Capter Charlered International Capter Charlese (Incompany), EC, 12.00
Aldermanbury, EC, 12.00
Aldermanb Northern Talestreet for Demonts 21.6. Do. New Kr. 10.8 btt CM 7 c Property of Landon 3.5p Lee Bertfearation, Shripney Works, Bogner Reois, 11-30
Rusby Portland Cement, Crown House, Rusby, 12-00
Scottish TV, Cowanddens, Glasgow, 12-00
Scottish TV, Cowanddens, Glasgow, 12-00
Stewart Wrightson, The Baitle Enchange, 14-20, St. Mary Ase, EC. 12-00
Warts, Blate, Bearme, Manor House Hotel, Moretonhampstead, Devon, 12-00 THIS FAST, JUNE S
COMPANY, MUSTINGS—
MISS, Metal Coll., Windchester House, Old
Regar Street, EC. 10.00
proceedir. Central Avenue, East Molesey, BOARD MEETINGS— Finals: Angio-indoresian Cpn. Beates (John) Bishop's Stores Starrey, 11.00 cm. Carest Eastern Hotel:
Irreppool Stroet, Et., 12.00
Earlies and Newman, Great Eastern Hotel.
Liverpool Street, 12.00
Hitshall, Gower Street, St. George's,
Tellord, Shropshire, 12.0
Extoman Bank, Great Eastern Hotel,
Liverpool
Street, 12.20
Newn Owen, Clayton Square, Liverpool,
11.30 Tristus
DI WORPHD & INTEREST PAYMENTSApheet 7.10
Author Chemical 2.920
Auth and Wilson Units 1.850
Automather Prods. Dt. 5.2pc
Avon Rubber Dt. 35pc
Barrow Hepburn 1.4p
Barton 2.20
Lagoury Schweepes Ln. 41pc Finals:
Arrican Cou. of South Africa
British and American Film
Culter's Stores
Culter Guard Bridge
Leigh Interests
Profer-Interestory Parambe 0.59
Parambe 0.59
President Stavn Gold Mining 320cts.
President Stavn Gold Mining 280cts.
President Stavn Gold Mining 280cts.
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Car cover problems | New group finance

addressed the second national conference of the British Insurance Brokers' Association. But it is only in the last week or so that the wast majority of insurance men and women -

essence — the motorist wants It is clear that he still finds the insurance industry, like the curate's egg, good only in parts. Complaints systems, the statements of insurance practice, the lack of regulation of nonbroker intermediaries — all came under fire as they have done before - and there Mr. Borrie had nothing new to say. Clearly he remains uninfluenced by what insurers have said

arguments. One new theme, particularly apposite to a brokers' conference, was the problem of misquotation of motor insurance premiums. generated two-thirds of the

BY OUR INSURANCE CORRESPONDENT A FEW weeks ago in Brighton complaints received by the Mr. Gordon Borrie, the director brokers' association in 1979 and general of Fair Trading, half of these concerned allegations of misquotation.

If we reckon that only the very vocal complain to an association like the brokers', we must assume that lower down the line most motor insurance including the many brokers who brokers are well aware of the were not at Brighton - have problems they face in the every been able to read fully what he day provision of motor cover. There, often, speed is of the

insurance, to be able to licence and drive his car. Much cover is provided immediately on request against fairly brief particulars, the premium being assessed on those particulars. Subsequently more detailed information is provided on a signed proposal form and the it can be discovered that material underwriting facts have been overlooked — facts publicly — and perhaps even privately — in reply to his which justifiably predicate a higher premium or more

restricted cover than at first indicated. If this happens, however justified the increase, says Mr. Borrie, " the consumer is never-Motor insurance theless left with a sense of grievance and may feel that the broker is not conducting his

business in a fair and honest manner." But surely the broker can protect himself against this sense of grievance? Surely he can make it clear that where he provides a quotation without afully completed proposal form, his quotation is provisional only and may be reviewed when more detail is available?

Surely he can say this verbally and give the customer a printed note to this effect with his cover note? Is it really true that if he tries to do business this way, the customer goes to the firm

next door? Mr. Borrie says: "the broker must make special efforts in this area to prevent misunderstandings. In particular, this-means asking the necessary questions and making the motorist aware of the importance of revealing material

controller for **Ocean Transport**

AND TRADING in place of Mr. Frank G. Roby, who has retired. Mr. Roberts, has held senior. finance appointments in both the group's land-based and marine

Mr. G. T. R. Hayter has been appointed executive director of WYNDHAM INVESTMENTS, which manages property and m-vestments for Allied Breweries Pension Funds.

Mr. Giuliano Lonardi has been appointed managing director of FIAT AUTO (UK) in place of Mr. E. Spinelli, who takes up new responsibilities for international projects, while remaining chairman of FIAT Finance.

M- David T. Andrews has been appointed financial director of MAN-VW TRUCK AND BUS.

Mr. Allan Boyd has become a director of ATCOST STRUCTURES, with responsibility for the Scottish region.

Mr. A. H. Sykes has been appointed group managing director of YORKSHIRE FINE WOOLLEN SPINNERS and continues as managing director of its subsidiary John Woodhead. Mr. T. D. Griffiths bas become sales director of John Woodhead

Mr. John Edgar has become managing director of TORVALE ENGINEERING, of Pembridge, in place of Mr. Brain Pamme who has taken up an appointment in Kenya.

Mr. Rudi Huisman has become commercial director and Mr.

Mr. Colin Milne has been

Mr. V. F. Roberts has been Leggatt has become vice-chair-appointed group financial con-man and Mr. Geoff Trevena, troller of OCEAN TRANSPORT honorary treasurer.

Mr. W. R. Andrewes has been apointed finance director of the OXFORD UNIVERSITY PRESS.

Mr. Bob Smith has been appointed president of MER-GENTHALER LINOTYPE COM-PANY OF AMERICA and will be succeeded by Mr. Anthony J. Alfano as managing director of Linotype-Paul in the UK.

Mr. Deryk Vander Weyer has been appointed chairman of BARCLAYS BANK UK and a deputy chairman of the Barclays Bank Group from October 1. His duties as group vice chairman responsible for finance and planning and as chairman of Barclays Merchant Bank will be taken by Mr. Frank Delling. He will be succeeded as senior general manager of Barclays Bank International by Mr. Peter

ANTONY GIBBS HOLDINGS states that Mr. D. E. Franklin is to resign from the Boards of Antony Gibbs and Sons, Antony Gibbs Investment Management and Antony Gibbs Unit Trust Managers from June 30.

Mr. John P. Cadwallader has been taken into the partnership of MURRAY AND CO., stock brokers, Birmingham.

Mr. Robert F. Corroon and Mr. Crawford A. Black have been appointed non-executive directors and Mr. Peter S. Christie has become a director of MINET HOLDINGS.

Mr. J. K. Rudgard director of Tony Hallatt, marketing director sales and marketing of H. P. of PEDIGREE PETFOODS, a Bulmer Ltd has been appointed an executive director of H. P. BULMER HOLDINGS.

elected chairman of the INSTI-TUTE OF ARCHITECTURAL appointed a non-executive IRONMONGERS in succession to adviser to the Board of Mr. Ron Sterling Mr. John P. PANTO AND CO. Sir Monty Finniston has been

Parliamentary business this week expansion in Afghanistan,

COMMONS-Finance Bill, committee stage. LORDS Alexandra Park and Palace Bill, third reading. Social Security (No. 2) Bill, second reading. Debate on the Government's policy on the Moscow Olympic Games.

TOMORROW

COMMONS—Finance Bill, committee stage. LORDS — Solicitors (Scotland) Bill, second reading. Employ-

ment Bill, committee stage. Environment Subject: Council House sales. Witnesses: Thamesdown Borough Coun-Foreign Affairs, Overseas Development Sub-Committee. Witnesses: Commonwealth

Development Corporation, and Overseas Development Administration. (Room 15, 5.15pm). WEDNESDAY COMMONS-Finance Bill, com-

mittee stage.

LORDS: Debate on the urgent need for industry to improve productivity. Street Offences (Amendment) Bill, second reading. Licensed Premises (Exclusion of Certain Persons) Bill, committee stage. Debate on difficulties facing young people training for a career in the arts. SELECT COMMITTEES Edu-

cation, Science and Arts. Subject: The funding and organisation of courses Foreign Policy of Soviet

Witness: Mr. Edward Heath. (Room 15, 10.30 am). Energy. Subject: The Government's statement on the new nuclear power programme. Witnesses: Bechtel Corporation. (Room 8, 10.45 am). Industry and Trade. Subject: Import and Export Trade. Witnesses: Marconi and Plessey, Civil Aviation Authority. (Room 16, 10.45 am). Public Accounts. Subject: Out-turn,

selective examination of taxpayers accounts, standards of manual operation of the PAYE system. Witnesses: Board of Inland Revenue. (Room 16, 4 pm). Witnesses: THURSDAY COMMONS-Debates on Oppo-

overseas students and on the offence of loitering with intent under the Vagrancy Act 1824. LORDS-Transport Bill, report stage. SELECT COMMITTEES

Affairs. Subject: Sanctions against Iran. nesses: Foreign and Commonwealth Office and Department of Trade. (Room 8, 10.30 am). Welsh Affairs. Subject: The role of the Welsh Office and associated bodies in developing employment opportuni-ties in Wales. Witnesses: British Steel Corporation. (Room 16, 4 pm). Home Affairs. Race relations and immigration sub-committee. Subject: Racial disadvantage. Witnesses: Home (Room 15, 4.30 pm). Office.

shares for every 1,000 Dundonian Convertible Preference Shares held by them. Fractions of a share will be disregarded. Applications on pink forms may be for any number of shares not exceeding the number shown on such forms, and will only be accepted from the shareholders to whom they are eddressed. Dundonian Shareholders may make applications on the Application Form below in addition to applications on pink forms.

Applications on blue forms from Officers and Employees of Dundonian and its subsidiaries to whom a copy of this Office for Sale has been sent, will be given preference in respect of 5 per cent_of the SWCM Shares now being offered.

The balance of SWCM shares effered for sale (approximately 75 per cent. of the issue), together with any The balance of SWCM shares effered for sale (approximately 75 per cent. of the issue), together with any shares not applied for under the preferential arrangements above, will be available to meet applications from the public.

Each application must be accompanied by a separate sterling cheque, or bankers draft, drawn on a bank account in the United Kingdom or the Channel Islands and which can be cleared through the facilities provided by the members of the Clearing Houses, Cheques and bankers' drafts must be made payable to "The Royal Bank of Scotland Limited" and be crossed "Not Negotiable". The right is reserved to present all cheques and bankers' drafts for payment on receipt, to reject any application, and to retain Letters of Acceptance and surplus application monies, pending clearance of the cheques and bankers' drafts of successful applicants. Due completion and delivery of an Application Form accompanied by a cheque or bankers' draft will constitute an undertaking that such cheque or bankers' draft will be honoured on first presentation. Attention is drawn to the declaration in the Application Form to that effect. If any applications are rejected or are accepted for a lesser number of shares than that applied for, the application monies or the balance thereof will be registered free of stamp duty in the names of the successful applicants or persons in whose favour Letters of Acceptance have been renounced provided that, in cases of renunciation, Letters of Acceptance (July completed in accordance with the instructions contained therein) are lodged at The Royal Bank of Scotland Limited, Registrar's Department, 31 St. Andrew Square, Edinburgh EH2 2AB, for registration not later than 3 p.m. on 9th July, 1980. Share certificates will be posted not better than 6th August, 1980.

All cheques, certificates and other documents will be despatched by post at the risk of the persons entitled thereto.

cil and Crawley Borough Council (Room 16, 415 pm). higher education (Room 6, 10.30 am). Foreign Affairs. Subject: Effects for British sition motions on the decision to charge "full cost" fees to

4. Issue Arrangements:
Under an Agreement deted 30th May, 1980, Rowe Rudd & Co. ("Rowe Rudd") has agreed to offer for sale at the price of 50p per share the above 5,500,000 fully paid Ordinary shares and to underwrite 4,400,000 of the said shares for a combassion of 2½ per cent. out of which they will pay sub-underwriting commissions of 1½ per cent; and their own logal expresses. Dundonian has agreed to underwrite the belance of 1,100,000 Ordinary Shares free of charge. All other costs and expenses. Dundonian has agreed to underwrite the belance of 1,100,000 Ordinary Shares free of charge. All other costs and expenses in the first Sale (including capital duty, the costs of printing; advertising and distribution; SWEM's own professional posts and the fee payable to the Receiving Bankers are payable by SWCM and, rogether with the above commission to Rowe Rudd, are estimated to amount to approximately: 2230,000 tive of value sided tax). :

After ineeding these expenses the net proceeds of issue are assimuted to amount to approximately £2,520,000.

5 Sponsorship Agreement:

Under an Agreement deted 30th May, 1980, SWCM and its Directors have given undertakings to Rows
Rodd regarding the publication of material information, the Issue of sculty capital, transactions by Directors, the
registration of transfers, compliance with The Stock Exchange Model Code for Securities Transactions by the
Directors, the registraments of She Stock Exchange in respect of acquisitions and resistations, the City Code on
Testopers and Mergers and other matters in line with the provisions of Appendix III to the document dated December
1979 Issued by The Stock Exchange entitled "The Stock Exchange Unlisted Securities Market—A Bocument for
Discussion", SWCM and its Directors have also undertaken to apply for a Issuing for SWCM's Ordinary share capital
when it is able to meet The Stock Exchange's requirements for listing.

5 Summary of the Articles of Association ecletion ("the Articles") of SWCM contain provisions, inter alia, to the following "59. Subject to any special rights or restrictions as to voting attached to any shares by or in accordance with these articles, on a show of hands every member, who (being an individual) is present in person or (being a corporation) is present by a representative or proxy, shall have one vote and on a poll every member who is present in person or by proxy shall have one vote for each ordinary share of which he is the holder.

to present at person or by proxy shall have one vote for each ordinary share of which he is the holder.

101. Unless and until otherwise determined by the Company by Ordinary resolution, either generally or in any particular case, no director shall useate or be required to vecate his office as a director or by reason of his attaining or having attained the age of seventy and any director retiring or liable to ratio under the provisions of these explains and any person proposed to be appointed a director shall be capable of being reappointed or appointment, as the case may be, as a director, notwithstanding that at the time of such reappointment or appointment he has attained the age of seventy, and no special notice head be given of any resolution for the reappointment or approxing the appointment as a director, and it shall not be necessary to give the to members notice of the age of any director or person proposed to be reappointed or appointed as such. For the purposes of this article the expression director shall in-

clude an alternate director.

108. The directors may establish and maintain, or procure the establishment and maintenance of, any pension or superminustion funds (whether compliantory or otherwise) for the benefit of, and give or precure the giving of donetions, gratimities, pensions, allowances and emoluments to, any persons who are or were at any time in the employment of service of the Company or of any company which is a subsidiary of the Company or is allied to or sesociated with the Company or any such subsidiary or of any of the predecessors in business of the Company or any such other company as aforesaid, or who may be or have been directors or officers of the Company, or of any such other company as aforesaid, and who hold or have held executive positions or agreements for service with the Company or any such other company as aforesaid, and the winest, widows families and dependents of any such persons, and also establish, subsidies and subscribe to any institutions, associations, societies, clubs or funds calculated to be for the benefit of, or to advance the interests and well-being of the Company or of any such other company as aforesaid, or of any such person as aforesaid, and make payments for or towards the insurance of any such persons as aforesaid and subscribe or guarantee money for clientable or benevolent objects, or for any such persons as aforesaid and subscribe or benevolent objects, or for any such persons as aforesaid and subscribe or benevolent objects, or for any such persons as aforesaid and subscribe or guarantee money for clientable or benevolent objects, or for any such persons as aforesaid and subscribe or guarantee money for clientable or benevolent objects, or for any such persons as aforesaid and subscribe or guarantee.

Subject to particulars with respect to the proposed payment being disclosed to the members of the Company and to the "proposed by the Company by ordinary resolution, if the Acta shall so require, any director who holds or has hald any such executive position

103. The directors may exercise all the powers of the Company to borrow money and to mortgage or charge its undertaking, property and vocalled capital or any part thereof, and to issue debentures and other securities. The directors shall restrict the borrowings of the Company and exercise all rights exercise he by the Company in relation to its subsidiaries so as to secure (as negards subsidiaries an faces by such exercise they can secure) that, save with the previous searcise of an ordinary resolution of the Company shall be borrowed if the aggregate principal amount (including any premium payable on first repayment) outstanding of sill moneys borrowed by the Group (exclusive of any inter-Group borrowings) then exceeds or would as a result of such borrowing exceed an amount equal to five times the aggregate of:

(A) the amount paid up on the share capital of the Company; and

(A) the total of the capital and revenue reserves of the Company; and
the total of the capital and revenue reserves of the Company and its subsidiaries (including any share premium account, capital redemption reserve fund and cradit beleace on the combined profit, and Joss account) but excluding same set said for taxation and amounts attributable to outpide stereholders in subsidiaries and deducting any debit belance on the combined profit and loss account at a consolidation, of the then latest audited belance on the company and its subsidiaries, but adjusted as may be necessary in respect of any variation in the peld up share capital or share premium account of the Company since the date of its lettest sudited belance sheet.

Entire purposes of the foregoing:

(1) the amount constanding in respect of acceptances by the Company or by any subsidiary of the Company or any subsidiary of the Company (not being biospitance in relation to the purchase of goods in the ordinary course of business) shall be taken into account as monays borlowed;

(2) moneys borrowed for the purposes of repaying the whole or any part of any moneys previously borrowed and then outstanding (including any premium payable on finel repayment thereof) and applied for that purpose within four months of such horrowing shall not, pending such application. (3) the principal amount (including any premium payable on final repayment) of any debentures issued in whole or in partier a consideration other than cash shall be taken into account as moneys bor-

rowed by the company issuing the same. (4) The expression "Group" shell mean and include any one or more of the Company and any subsidiary or subsidiaries for the time being of the Company. (4) The expression "Group streat mean and incident any one or gate to a be company and any subsidiary or subsidiary or subsidiary or subsidiary or subsidiary or subsidiary given in respect of moneys borrowed or to be taken into account as moneys borrowed in excess of the aforesaid limit shall be invalid or ineffectual except in the case of express notice to the lender or the recipient of the security at the time when the debt was incurred or security given that the limit hereby imposed had been or was thereby exceeded, but no lender or other person dealing with the Company shall be concerned to see or enquire whether such limit is observed.

desing with the Company super secondary and secondary state of the secondary super secondary super secondary super secondary super secondary super secondary super secondary sec arrangement or any other proposal whetcomer in which he has any paterial interest otherwise than by writte of his interests in shares or dehentures or other accurities of or otherwise in or through the Company, Adjacon shall not be equated in the quorum at a meeting in relation to any resolution on which he is debared.

115. (A): A director shall (in the absence of some other material interest than is indicated below) be entitled to vote (and be counted in the quorum) in respect of any resolution concerning any of the following matters,

to vote (and be counted in the quorum) in respect or any resources containing any security or indemnity to him in respect of money lent or obligations incurred by him at the request of or for the benefit of the Company or any of its subsidiaries;

(ii) the giving of any security or indemnity to a third party in respect of a debt or obligation of the Company or any of its subsidiaries for which he himself has assumed responsibility in whole or in part under a quantum or indemnity or by this giving of security;

(iii) any proposal concerning an offer of shares or debendures or other securities of or by the Company or any of its subsidiaries for subscription or purchase in which offer he is or is to be interested as a participant in the underwriting or sub-inderwriting thereof;

(iv) any proposal concerning any other company in which he is interested, directly or indirectly any whether are of other index of the indirectly in the company of the company (or of any class) of the equity, share capital of such company (or of any relevant company (any such interest being deemed for the purpose of this article to be a material interest. It all coroneany (any such interest being deemed for the purpose of this article to be a material interest. It all coroneany (any such interest being deemed for the purpose of this article to be a material interest.

relevant company (any such interest being deemed for the purpose of this article to be a material interest in all circumstances).

(v) any proposal concerning the adoption, modification or operation of a superangustion fund of retirement benefits purpose under which he may benefit and which has been approved by or is subject to and conditional upon approval by the Board of intend Resence for taxation purposes.

(a) Where proposals are under consideration concerning the appointment (including forms or varying the terms of appointment) of two or more directors to offices or amployments with the Company is understood, such proposals may be divided and considered in relation to each director separately and in such cases each of the directors concerned (if not debarred from voting under the proviso to paragraph (A) (b) of this addition his period to vote (and to be counted in the secretal) in respect of each resolution except that concerning his own appointment.

10.) In any quession, small wise at any meeting as to the materiality of a director's interest or as to the antilement of any director to vote and such question is not resolved by his voluntary agreeing to abstain from voting such question shall be referred to the chairman of the meeting and his ruling in relation to any other director shall be final and conclusive except in a case where the nature or extent of the interests of the director concerned have not been fairly disclosed. emed nave not been remy discussed. (D) The Company may by undinary resolution suspend or relax the provisions of this or the last ding syricle to any extent or ratify any transaction not duly authorised by reason of a contravention of

ctors and other interests
(a) As at 30th May, 1980 and upon completion of the Offer, no Director has or will have any interest seared share capital of SWCM save to the extent to which Directors may accurae shares pursuant to the Offer

(b) Save as-disclosed in this document, no other person has any interest in the issued share capital of SWCM.

(c) RRI has no interest, direct or indirect in any assets which since 30th May, 1978 have been or are used to be acquired, disposed of by or lessed to SWCM.

(d) No Director of SWCM has, save as disclosed in this paragraph.

(i) any beneficial interest direct or indirect, in any assets which since 30th May, 1978 have been or are proposed to be acquired, disposed of by or lessed to SWCM;

(ii) a meterial interest in any contract or arrangement entered into by SWCM which is significant in relation to the business of SWCM taken as a whole.

(a) The following are particulars of the Service Agreements between SWCM and its Directors:

Nature of Appointment Managing Director Executive Director Fixed annual Date Expiry Date
20th May, 1980 30th June, 1985
20th May, 1980 30th June, 1983 £16,000 Mr. G. C. Per ill also be entitled to an annual co.

of £1 million and less than £3 million, ½ per cent, on net profits after tax in excess of £3 million and less than £5 million, and ½ per cent, on net profits after tax above £5 million. (f) The aggregate enoluments and professional fees of the Directors of SWCM during the year to 31st March, 1980 were £8,000 and the aggregate enoluments and professional fees for the year to 31st March, 1981 are (g) There is set out below a statement showing the number of SWCM shares which the Directors of SWCM,

Name of Director Number of SWCM shares 10,000 G. C. Pengilly D. G. Neville 2.000

R. W. Ports 5,000
R. M. M. Williams ... 5,000
All these applications are liable to be scaled down on the same basis as other applicants, save to the extent that they may be given preference by virtue of their shareholdings in Dundonian or their position as officers employees of Dundonian and its subsidiaries.

In addition, Mil. Securious Limited, of which M. R. Lewinsohn and D. G. Neville are directors, has indicated that it intends to apply for approximately, 150,000 SWCM shares in accordance with the preferential arrangement.

8 Consents

Messrs. Barke, Cohen, Fine and Partners and Robertson Research International Limited have given and have not withdrawn their written consents to the inclusion herein of the respective references to themselves and their Reports, in the form and context in which they respectively appear.

9 Materiel Confracts The following contracts, not being contracts in the ordinary course of business, have been entered into since Instruction and are or may be meterial:

(a) The Sponsorship Agreement between SWCM and Rowe Rudd & Co., referred to in paragraph 5 above.

(b) The Underwriting Agreements referred to in paragraph 4 ebove.

(c) The Agreement with Amaz referred to above.

(d) The Exploration and Mining Licences referred to above.

The Directors of SWCM have been advised that, following completion of the Offer for Sale, SWCM will not use company within the meening of the Income and Corporation Taxes Act 1970.

11 General

(a) Save as disclosed herein, no share or loan capital of SWCM has, within the period from incorporation to the publication of this advertisement, been issued or agreed to be issued for cash or for a consideration other than cash and no such capital of SWCM is now proposed to be issued.

(b) No-share or loan capital of SWCM is or has been agreed conditionally or unconditionally to be put

option.

(c) Save for the underwriting commission referred to herein no commissions, discounts, brokerages or other (c) Save for the underwriting commission referred to herein no commissions, discounts, brokerages or other if terms have been granted by SWCM within the period from incorporation to the publication of this document unection with the issue or sale of any part of its share or loan capital.

(d) No material issue of shares of SWCM (other than to shareholders pro rate to existing holdings) will be writing one year of the date hereof without prior approval of SWCM in general meeting.

(e) No issue of shares of SWCM will be made which would effectively after the control of SWCM without

(e) No issue of shares of SWCM will be made which would effectively after the control of SWCM without prior approval of SWCM in general meeting.
(f) Save as disclosed in the section above heeded "Exploration and Mining Licences" SWCM is not angeged in any fitigation or arbitration of material importance and no fitigation or claim of material importance is known to the Directors of SWCM to be pending or threatened against it, nor has SWCM any claims against third parties, concerning exploration rights nor, so far as the Directors of SWCM are aware, has any claim concerning exploration rights been made or notified by third parties against it.
(g) The minimum amount which in the opinion of the Directors of SWCM must be raised by the issue of the shares now being offered for sale is £2,480,000 which in relation to each of the below specified sub-paragraphs of paragraph 4(a) of Part I of the Fourth Schedule to the Companies Act 1948 as regards the matters therein specified is made up as follows:

(ii) £230,000 (iii) Nit (iv) £2,250,000 £230,000

The above amounts are to be provided exclusively cut of the proceeds of the issue of the shares now being offered for sale and, having regard to the Underwriting Agreements referred to in paragraph 4 above, the receipt of amounts is assured.

(h) The documents attached to the copies of this Prospectus delivered to the Registrar of Companies for stion were the signed written consents retend to in paragraph 8 above and copies of the material contracts. etened to in berstrably a spoyer

12 Documents Available for Inspection

Copies of the following documents will be available for inspection during normal business hours on any weekday (Saturdays excepted) at the offices of Rowe Rudd & Co., 63 London Wall, London EC2M 5UQ, and Nabano Nathanson, 76 Jermyn Street, London SW1Y 6NR, up to and including 20th June, 1980:—

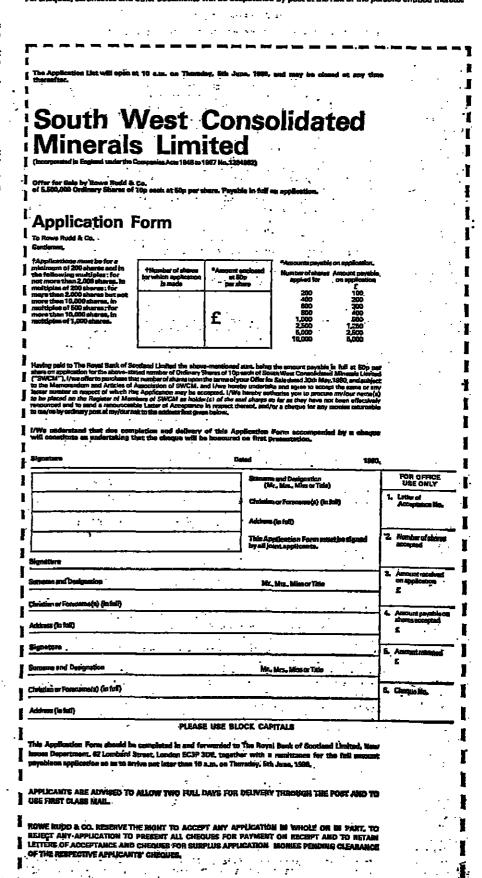
(a) the Memorandum and Articles of Association of SWCM

(b) the audited Accounts of SWCM for the two years ended 31st March, 1980

the material contracts referred to in paragraph 9 above
the Service Agreements referred to in paragraph 7 (a) above
the Accountants' Report of Berke, Cohen Fine and Partners
the Geological and Mining Consultants Report of RRI n consents referred to in paragraph 8 above.

Applications from the public must be made on the Application Form below and when com-pleted should be returned to The Royal Sank of Scotland Limited, New Issues Department, 62 Lombard Street, London EC3P 3DE so as to arrive no later than 10.00 s.m. on 5th June, 1980. Applications must be for a minimum of 200 shares, for multiples of 200 shares up to 2,000 shares, for multiples of 500 shares thereafter up to 10,000 shares and for multiples of 1,000 shares thereafter.

Applications from Dundonian Shareholders (on the register at the close of business on 23rd May, 1980) on the Applications from Dundonian Shareholders (on the register at the close of business on 23rd May, 1980) on the pink forms sent to them will be given preference in respect of approximately 20 per cent, of the SWCM shares now being offered. These forms have been personalised to show the number of shares which each shareholder is preferentially offered. Dundonian Shareholders are given preference to take up SWCM shares pro rate to the Dundonian shares held by them broadly-on the basis that full conversion of Preference Shares has taken place. This results in Dundonian Ordinary Shareholders being given preference to take up 70 SWCM shares for every 1,000 Dundonian Ordinary Shares held by them and Dundonian Preference Shareholders being given preference to take up 117 SWCM



A Corposition should complete exclusioned by a daily stational of efficient who whealed state his designation.

A separate chains, which must be desure in Studing on a bank or branch threeof in the United Stingdom or the Channel Stiffeth, when accompany sech application. remark when accompany each apparation.

No nearly tell he hased for the second poid on application has an extraordishment will be incompled through the post at the rast of the applicately) often by a tolky poid rangement bit. Letter of Accompance, (together with, if applicable, a children for the applicable.

payable to "The Royal Bank of Scotland Links" and consent "Not Regariable".

FINANCIAL TIMES SURVEY

Monday June 2 1980

The coming to power of President Jaime Roldós could prove to be a turning point for Ecuador. If Sr. Roldós can persuade his country to implement his strategies, he will have achieved a great deal and demonstrated that the republic need no longer be an example of political and economic inefficiency.

New plan shows great promise

Hugh O'Shaughnessy Latin American Correspondent

ECUADOR'S PROSPECTS have seldom seemed more promising than they do today. Lest it be thought that this newspaper is being carried away on a wave of euphoria, one must quickly add that Ecuador's prospects never seemed terribly

For much of its existence, what is now the Republic of Ecuador was a disregarded corner of some other, bigger political conglomeration. During much of the Spanish empire, what was then called the Audiencia of Quito was a geographical subdivision of the enormously rich Vice-royalty of Andes and the workers of mixed Peru, which was ruled from race on the plantations of the

was to Spain in the sixteenth and seventeenth cen-

businesmen of Lima and Quito and I will rule Ecuador." He seemed content to slumber on, was President five times from its fame coming from the plety 1933 to 1972 with a bewildering of its inhabitants and the fine succession of political allies, quality of the religious works, produced by its craftsmen.

It was freed from Spanish rule, more by the design, of liberators from Venezuela in the early years of the nine-teenth century than by any great military efforts of its ownpeople. Then, briefly, it became a part of Greater Colombia, before relapsing into compara-tive obscurity as the poorest and most backward of the three States into which Greater Colombia was divided. It made a modest living from cocoa:

The country's history as an independent State was a jumble of warring conservative and liberal factions almost till the present day. The squabbles of the rival demogogues made little ordinary Ecuadorians. Quito may have been the con-

servative administrative capital, high in the Andes, Guayaquil, the more liberal, outward-looking trading port on the Pacific. But the scattered pre-Colombian inhabitants of the coast were hardly affected by the dogfights of a small political

what India was to demogoguery that, for decades, proxy.

Britain in the nineteenth, but affected Ecuador was best little of Lima's prosperity distilled in the career of Dr. spread north. Quito's interest José Maria Velasco Ibarra whose were often sacrificed to the motto was, "Give me a balcony succession of political allies, from the Communists to the

extreme Right. Only once did his political opponents allow him to complete his constitutional term. Seeing his political incoherence and blatant self-seeking, one must have some sympathy for their intolerance of him.

Military rule

His final overthrow ushered in an era of military rule which was of little benefit to the country and which, in turn, gave way to elected civilian Government once again, last year.

The coming to power of President Jaime Roldos could prove to have been a turning point for the country if he is able to put a good part of his

His route to the presidency was a fortuitous one, insofar as it hinged on the fact that his uncle, Sr. Assad Bucaram, the most powerful populist leader in the country and the un-crowded king of Guayaquil, was forced to give up his own presidential ambitions. His Levantine ancestry disqualified him from standing for president and, in Roldos, he saw a way elite. and, in rollows, he saw a new The spirit of rampant of gaining the top position by

proxies, President Roldos, once to the plan, Vice-President in office became his own man, Osvaldo Hurtado comments: in office, became his own man, wanting to put into effect his own plans. Roldos and Bucaram are today so much at odds that the Government is made impossible. The former in the presidency is check-mated by the latter's control of congress and the latter's initiatives are blocked by the former's presidential veto. The matter will

It will be a tragedy if the president does not sooner or later win a freer band to start putting his ideas into practice.

soon be put to a national

Unlike most of his predecessors in office, Roldos has become president with a firm, realistic and well-detailed scheme of government, the National Development Plan.

The plan, which the Govern-ment has already attempted to make the basis for a countrywide debate, says that it aims for a pragmatic measure of

With a refreshing lack of demagoguery it warns that the strategy of "growth at all costs" which the few become rich and the mass becomes poor, with grave social consequences. The redistributive pattern, on the other hand, ends in a paralysis of growth, with the eventual destruction of the democratic system and the nullification of real social progress.

For its execution, the plan calls for a minimum consensus

Osvaldo dictatorial regime, it cannot be imposed in a forced and authoritarian manner, as happened with previous plans."

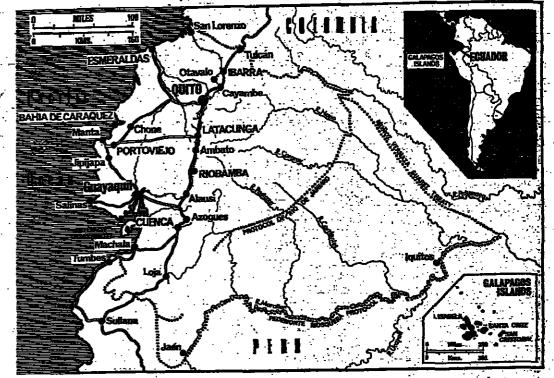
It puts forward a strategy to exploited natural resources. A big priority is given to the de-velopment of oil resources which, if successful, would be the quickest way to provide the money needed to finance de-

At the same time, it places emphasis on raising te standard of living of the mass of Ecuadoreans who are now a burden on the economy, rather than an asset to it

Forty fundamental projects have been selected as the corner-stones of development in President Roldos's five-year term. They are biased towards the improvement of life in the countryside which in previous administrations, was given the lowest priority

Most money is being spent on provision of country roads which will enable the products of the farms to reach the towns and export markets more easily.

Rural electrification, housing, health, drainage and drilling of wells are included in an effort aimed at closing the gap between the more prosperous towns and the more backward rural areas, the booming centre of Quito and Guayaquil, and the more neglected provincial areas



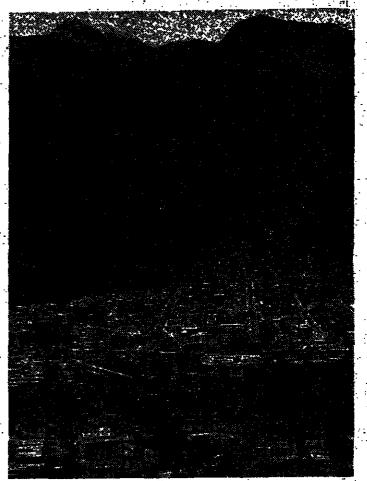
CONTENTS	
The economy D	
Political conflict III	Ė
Agriculture III	:
Tourism potential IV	<i>;</i>
Industrial plans V	Ţ
Oil exploration V	,
Personality profiles VI	[

between the illiterate and those who have been able to receive an education.

will depend on its ability to win results from the oil industry, the fisheries, the farmers and the miners, in coaxing production and wealth from sectors, which were often overlooked in the

This will demand powers of political persuasion and of administration such as Ecuadorean governments have never, in the past, been able to exhibit.

If President Roldos is able to persuade his country to accept their implementation, he will have achieved a great deal and demonstrated that the republic need no longer be an example of demagogery and administra-



The Pichincha volcano towers above a residential section of Quito, the capital city of Ecuador

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Natural resources hold key to bright economic outlook

4,420,0

4,878.5

5.248.3

of the 376bn sucres

Oil and agriculture will be the

ing is seen to rise from 480m

surces this year to nearly 3bn sucres in 1984, investment in

needed over the period

principal priorities In the oil industry, for

THE GOVERNMENT of President Roldos is getting down to the difficult and unpopular task of "mopping up the milk" which was so liberally spilt by the military rulers who preceded him in

It was the good fortune of the military authorities that they were in control of the 1979 country when the oil boom hit 1980 Ecuador. Oil began to be pro-duced in commercial quantities 1981 in 1972. And by 1974, when the 1982 military authorities were com-fortably installed, it was flow-ing at what was destined to be 1983 its fastest rate and represented

16 per cent of the GNP.
From then on, it was all downhill. Not having the expertise with the new flood of money, coming out of the oil wells, the country's rulers were in no position to put it efficiently foreign lenders.
to work. Government structures The new elec were not sophisticated enough to deal with it.

Nevertheless, as production fell away, the Government wanted to keep going the boom conditions with which it had become so quickly and easily familiar. easily familiar.

In order, therefore, to keep the boom going they had recourse to the plentiful offers of money which they received from foreign bankers, eager to put out funds to a member of OPEC. The foreign money did the job which the generals wanted it to do and, in the decade of the 1970s, the average annual growth in the economy was 7.45 per cent, one of the highest in the developing world.

But the explosion of newlyacquired foreign debt was enormous. From a figure of \$241.5m in 1970, it grew till last year it was provisionally out at nearly 10 times that amount, \$2,343.2m.

Amortization grew into one of the heaviest burdens on the country's resources. The faltering of the oil production and the galloping increase in the subsidised domestic consumption of fuel led to grim forebodings that Ecuador could become the first OPEC country to be in financial difficulties.

BASIC STATISTICS

	,
Population	7.81m
GNP	184.05bn sucre
Per capita	23,565 ѕисте
Trade (1978) Imports	\$1,582m
Exports	\$1,516m
Imports from UK	£33.4m
Exports to UK	£6.2m
Currency: Sucre	£1=57.00.

fficial rate; 64.23, free rate.

EVOLUTION OF THE FOREIGN DEBT (\$m) 5,549.5 3,566,6 4.019.3

433.7

servicing went from \$85.5m in 1976 to \$832m, inclusive of an extraordinary item of \$510m. part of a rescheduling deal with the 1.5 per cent registered in the last three years.

62.7

431.5

506.2

540.7

The new elective regime is faced with restoring some order into a chaotic situation. If they are to bring the country round to paying its way again, they will have to win an increase in exports, by pushing up oil production once again and also encouraging agriculture to move les sluggishly.

The diffiuclty here is that low domestic prices for oil and agricultural products mean that there is much avoidable waste of the former and little incentive for the producers of the latter.

Main targets

But the Government is aiming at doing a great deal more than merely pushing up production in order to meet the needs of foreign creditors. The Roldos Government has produced a detailed programme of all round development through which it hopes to right some of the most glaring weaknesses in the social fabric of the country.

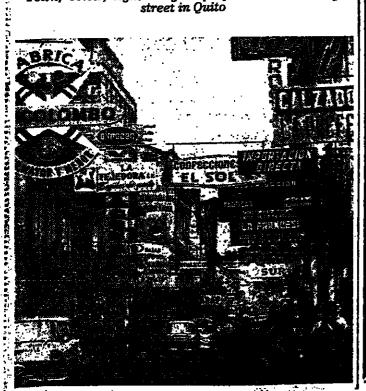
The macro-economic targets of the plan are six. Between now and 1984, it is planued to achieve an average annual growth rate of 6.5 per cent which raise per caput income from \$1,114 in 1978 to \$1,312 in

private, would be increased at an average annual rate of 6.8 per cent and rise as a proportion of the GNP from 26.9 per cent to 27.1 per cent.

Productivity would be increased by 2.6 per cent every year and 489,000 new jobs would be created. Modest steps would be taken to increase the share of wages in the national income,



Crowds, above, throng market stalls in Equator Town, below, signs hang in profusion over a busy



In the countryside, the Government intends to spend 4.4bn sucres over the next five years, to 1984, on bettering the rural road network. The inten-tion is to allow crops more easily to go to market in the town and abroad and allow the country-dwellers to enjoy more of the benefits of economic

been confined largely to the cities and to Quito and Guayaquil, especially. The achievement of these ambitious goals by a democratic Government, subject to all the pressures of an electorate newly-awakened to its rights after years of military rule, will be a difficult and delicate task.

Lastly, exports would be boosted so that they grew at 4.2 per cent a year rather than The congress had hardly been re-inaugurated last year before it decided to raise the minimum wage substantially and decree a reduction of the working week to 40 hours, as from October

The inflationary pressures inherent in such a series of measures, justified as they were instance, expenditure on drillfrom the social and political point of view, will be increased refining Ecuador's domestic if the Government is not able production is scheduled to go to balance its big new expendi-from les than 400m sucres this ture plans with a surge in new

income. The current budget of 45.3 bn sucre was approved by

its fingers that a rise in oil prices and, therefore in its take from the producing companies will allow it to finance its culty. The Government will be on tenterhooks while it sees oil on tenternooss which is deevlop.

In the longe-term, the outlookfor Ecuador must be bright if
systems can be worked out to which have hitherto exploit the great variety natural resources that the

country contains. After all, a relatively small opulation has at its disp:osal population has at its disp:osal big oil and gas deposits, an agricultural sector which can produce a wide variet yof products from bananas to temperate cereals, a continental shelf which contains one of the world's most important stocks of fish—not to mention a tourist potential which has barely been

considered.

The challenge to Ecuadoreans sito their organisational capa-bilities. There is no lack of to make productive. resources

Hugh O'Shaughnessy Sour

1980 1981 1982 1983	_ 19 54 1950-8 4
CURRENT ACCOUNT	· · · · · · · · · · · · · · · · · · ·
1—Export of goods 2,711.0 3,294.5 3,746.5 4,207.8	4,817.4 18,831.2
(a) Traditional 827.5 967.6 1,131.9 1,330.8	1,562.4 5,819.8
(b) Oil 1,508.1 1,874.9 1 2,069.7 2,075.8	2,075.8 9,752.2
(c) Manufactures and other 375.4 452.8 545.8 801.2	1,083.9 3,259.7
(i) Manufacturers 350.9 423.7 513.2 763.3	1,041.5 3,092.6
(ii) Other 24.5 28.3 32.6 37.9	43.8 167.1
2-Import of goods -2.252.0 -2.712.0 -3.113.9 -3.376:0	-3,766.0 -15,219.0
Petroleum products - 96.6 - 223.1 - 262.5 - 68.5	- 37.8 - 688.5
3—Trade account balance (1 & 2) 459.6 582.5 833.5 831.8	1,105.4 3,612.3
4—Export of services 254.1 379.9 423.5 479.2	626.9 2,162.7
5—Import of services -1.221.9 -1.462.8 -1.664.5 -1.799.3	-2,076.7 -8,225.2
(a) Investment income - 530.9 - 606.8 - 682.5 - 772.3	- 834.7 -2,427.2
(i) Interest - 410.4 - 462.9 - 513.3 - 577.3	622.1 2,585.9
(ii) Prefits - 1265 - 1440 - 1692 - 195.0	- 212.6 - 841.3
(b) Other services — 691.0 _ 856.0 — 282.0 — 1,027.0	-1,242.0 -4,798.0
6—Service account halance (4 & 5) - 967.8 - 1.082.9 - 1.241.9 - 1.320.1	-1,450.7 $-6.062.5$
7—Transfers — 40.0 — 40.0 — 40.0 — 40.0	- 40.0 - 200.0
8Current account balance - 468.8 - 460.4 567.5 - 448.3	- 305.3 -2,250.3
	

•	CAPITAL	ACCO	UNT	>		٠.
٠.	100.0	168.0	180.0	184.0	126.9	758.0
	1,224.3	832,2	964.7	931.5	847.9	4,800.6
:	975.3	398.5	155.6	62.7	11.4	1,603.5
	249.0	433.7	809.1	868.8	936.5	3,197.1
	– 771.5 ′ –	,48L5	- 506.2	-: 581.7	- 546.7	-2.817.7
-	- 771.6 ·-	431.5	506.2	- 540.7	- 488.7	2 738 7

VARIATION IN THE INTERNATIONAL MONETARY RESERVE

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LA PREVISORA

9-Direct foreign investment

(a) Outstanding in 1979

Long-term capital account balance

10-Loans

(b) New

(b) New

ll—Loan servicine

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LATIN AMERICA

JUNE 30 1980

The Financial Times proposes to publish a survey of Latin America in its edition of June 30. The provisional editorial synopsis is set out

Introduction Does Latin America exist as anything more than a geographical term? The degree of political and economic integration amongst the countries of the region. Moves to strengthen regional

The Latin American Free Trade Association Impact on trading patterns; success of tariff cutting.

The Andean Pact Aspirations to become more than a free trade area; success in co-ordinating national industrialisation plans.

The River Plate Agreement Moves to co-ordinate exploitation of River Plate Basin; effect on economies of Argentina, Uraguay, Brazil, Paraguay

The Amazon Pact Co-ordination of Amazonia development by Brazil. Energy Fuel resources of Latin America; role of Latin American Energy Organisation.

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FINANCIAL TIMES EUROPE'S BUSINESS NEWSPAPER

Th contents, size and publication dates of surveys in the Financial Times are subject to change at the discretion of the Editor.

Political conflict unresolved

Aguilera was sworn in by the was at odds with the old style

the space of 18 months, witnessing a lengthy and highly controversial result of the first tournd of the fi After voting three times in the space of 18 months, witnessround of the presidential election, and waiting on tenterhooks to find out whether the Guayaquil, and forged an armed forces would really cede see the new Administration get to work and carry out its plans. to work and carry out its plans.
Instead, they have watched a nearby swamps. It looked as though Sr. Bucaram would win power struggle between the Government and Congress take the country into such dangerous ground that President Roldos announced he might have to call a plebiscite to resolve the crisis. But, in a last-minute attempt to persuade the president to drop such a drastic measure, political party leaders have pledged their support for Government proconciliatory gesture welcomed by Sr. Roldós. Hostilities between

President and members of Congress are only too common in Ecuadorean politics. This time, ironically, the chief actors political party, but also of the same family. Assad Bucaram, president of Congress is leaving a considerable share of President Political President Political Politica are not only in the same President Roldós uncle, and both belong to the Concen-tration of Popular Forces (CFP), Ecuador's most powerful

Sr. Roldós took over the CFP presidential candidacy when Assad Bucaram was barred Assad Bucaram was barreu because of his Lebanese Right-wing opponeus, parentage. Instead of bowing to his party chief's authority, Sr. Roldós soon showed that he President, Osyaldo Hurtado's party, Popular Democracy, as well as from other groups such circles that had previously not been drawn to the CFP.

After the first round of the residential election—which Sr. Roldós won, but without the overall majority needed to avoid a run off—it was already

WHEN President Jaime Roldos lawyer and university professor military authorities last August, Caudillo politics of his uncle-Ecuadoreans breathed a sigh of in-law. Assad Bucaram took relief. in its early years, when the

He served twice as mayor of base in the city, partly through the presidency in 1972, but a military coup led by General Guillermo Rodriguez Lara, fore-stalled the elections.

Sr. Roldos joined the CFP in 1966 and became one of the most coherent political voices in a populist movement that gradually gained strength on a national scale. For 40 years and five presidencies, Jose Maria Velasco Ibarra had dominated the Ecuadorian political scene, but when the armed forces announced their plan to return the country to civilian rule, the extraordinary orator was already over 80, and, from his his votes to be picked up by the CFP.

Clear victory

In the second round of the presidential election, Sr. Roldos won over 1m votes, giving him a two-to-one victory over his well as from other groups such Roldos has a clear mandate for his programme of "economic development with recipied and applications of the seconomic development with recipied and applications of the seconomic development with recipied and applications of the seconomic development with recipied and seconomic development with recipied and seconomic development with the se development with social jus-

At the same time, Assad Bucaram and 28 other CFP representatives were elected to a



President Roldós answers questions at a news conference in Ouito.

According to many, Sr Bucaram was only showing his true colours when he made a pact with the Conservative Party in order to gain the presidency of Congress. All his rhetoric against the Right, the oligarchy and the establishment business groups, evaporated in favour of an alliance with Ecuador's most traditional political grouping, now much reduced in size and influence.

In theory, President Roldos was well placed, with a strong vote for himself and his own party reigning in Congress. Nothing could have been further from the truth: the personal animosity between the President of the country and the president of Congress developed to such a point that it involved the two powers in constant wrangling. paralysing the Government.

President Roldos vetoed some wo-thirds of the Bills sent to him by Congress, mainly on the grounds that Congress was legis grounds that Congress was legis. However, the political parties lating on matters outside its could not agree on the mechdictatorship, provincial repreocal roads and universities. At temporarily.

the same time, Congres refused The creation of a Senate is to grant Sr. Roldos tax increases still on the cards, but can now to finance the budget and it be discussed at leisure during stalled for months on legisla the next Congressional session

The Left and the unions claim sentatives. the Government has done nothing to fulfil its electoral promises of social and economic reforms, while the Right (which during the electoral campaign forecast "chaos" if Sr. Roldos But despite some disillusionment among those who had very high expectations. support for the president is still strong, and he has been able to count on the sympathy of most popular organisations in his search for a solution to the impasse with the legislature.

After fruitless discussions with Congressmen in his own party, President Roldés put forward five constitutional reforms which included the power to dissolve Congress once during the five-year presidential

" dictatorship greeted this move, and four of the reforms were rejected by Congress, giving the President the right to call a plebiscite. Although Ecuadoreans would officially have been deciding on changes to the constitution, it would in practice have been a

Economic and political sectors criticised the call for a plebiscite because of the inevitable long period of instability, with insults and accusations raising temperatures and possibly leading to violence over

the country.

A commission of elder statesmen mediating between the Government and Congress, tried to pacify tempers and save the situation by suggesting a two-tier congressional system which would take Sr. Bucaram and the 11 other national representatives in to a Senate.

competence. After 10 years of anics of this formula, and it was Sr. Roldos himself who came to sentatives were keen to please an understanding with enough their supporters and showered the executive with projects for ernment majority—at least

tion for the creation of the when, as seems likely, a less National Development Council; obstructive legislator is elected presided over by Vice-President to replace Sr. Bucaram as president of the House of Repre-

Negotiations over the political conflict were complicated by the CEP's insistence on interrogating Sr. Carlos Feraud Blum, the Interior Minister, about alleged forecast "chaos" if Sr. Roldos abuse of power by those respon-should win), says "it told you sible to his Ministry. In calling for the Minister's impeachment by Congress, his own party hoped to embarrass President Roldos, but the contrast between Sr. Feraud's coolly intelligent defence and the lengthy haranguing of his accesers has done little to improve the CFP's standing

Accusations

The military authorities, who stepped down gracefully last August amid congratulations from the United States and other Governments, have been blamed for many of the country's political and economic

Several members fire from a congressional com-mission for special investigations. Admiral Alfredo Poyeda, the former head of the military junta, published a statement calling on the armed forces to be alert for the strict observance of justice.

The Minister of Defeace recently reaffirmed the Armed Forces loyalty to constitutional law, and there is no reason to suppose the military would be tempted to intervene again.

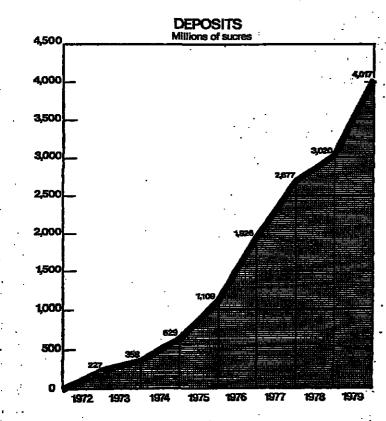
Although Sr. Bucarem's had over Congress has weakened a recent weeks, and Sr. Rodges Berja of the Democratic feet called him a "political conse." many believe the old magician still has plenty of tricks. But Sr. Roldos alliance with some of the modernising groups in Congress, though shaky should allow him to carry through projects included in his ambitious five-year plan and concentrate

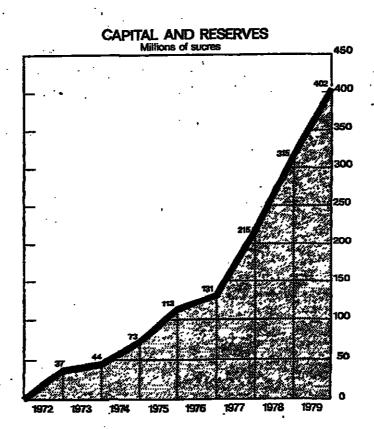
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Efforts to improve crop production

has lagged sadly behind the rest of the economy, with production rarely matching population growth, food imports growing ever larger, and an agrarian reform programme that has led to a proliferation of small plots or minifundios.

But three agricultural pro ducts — cocoa, coffee and bananas — still account for 35 per cent of exports and, as greater proportion of oil erves must be kept for local needs, these three commodities will continue to be the backbone of Ecuador's export earnings in

The area sown with traditional crops has dropped substantially in recent years, because, say the farmers, controlled prices are so low and investment has been diverted into more profitable

ventures Apart from the export commodities, the production of oilseeds, fruit and vegetables, and cattle has been growing steadily. Agriculture still con-tributes 20 per cent of GDP— compared with nearly 30 per cent ten years ago-and the official rate of growth for the last decade averaged about 4 per cent a year. However, this figure includes forestry and fishing, both of which had annual rates of growth of more than 10 per cent.

Bad droughts

As far as crops are concerned, production fell by at least 3 per cent a year, while livestock increased by about 5 per cent a year. A series of bad droughts during the last three years has affected production, especially in Manabí and parts of the high-lands. Severay major invigation lands. Severay major irrigation projects in the Guayas Basin and in the Jubones and Chone valleys, will help to ease the drought/flood cycles along the

Whatever the constraints on agriculture, land is not one of them. The World Bank calculates that Ecuador is farming less than half the potential arable land on the coast, and using only 10 per cent of the Amazon land suitable for

In the highlands, there is less room for expansion and intensive farming on steep slopes has led to severe erosion in some provinces, though an extensive forestry programme is planned to try to arrest this. Agriculture has been given ;

tey role in the National Plan, reflecting the Government's conviction that the sector must rerevitalised. It also reflects the view that the rural population -which still represents 40 per cent of the total - should be

helped towards a better standard of living.

Investment in rural development, including education, electricity, secondary roads, silos, forestry and irrigation, is



Banana crop awaiting transportation on the Guayas River

planned at US\$80m for the fiveyear period. Nearly US\$120m on the big hacienda, where the of this is to be spent on peasant workel the owner's land integrated rural development projects," covering a land area of more than a million hectares and benefiting up to half a million peasant farmers. But some critics of Govern-

where there is conflict between large landowners and peasants, nor are they the regions of greatest poverty. Rather, the Government is strengthening middle income peasant farmers by supporting them with organisation, infra-structure and agricultural inputs, and creating a buffer between the latifundio and minifundio owners, while failing to table the problem.

to tackle the problems of the latter group. The plan does, however, include land reform measures enough to irritate the chambers of agriculture, but not enough to earn the gratitude of the peasant movements.

peasant workel the owner's land in exchange for a plot to cultivate, has been virtually eliminated. However, the land turned over to the peasants was often poor quality, and the Agrarian Reform Institute did ment policy point out that the areas chosen for these projects not have a generous enough budget to follow up the reforms are not on the whole areas with credit and technical assistan

The classic feudal relationship

As the same time, landowners who feared they would have their haciendas expropriated (though very few ever did), divided their land and put the proceeds into construction, commerce and industry in the

One programme specifically designed for the poorest groups is operated by the Central Bank. Foderuma, the Development Fund for the Marginal Rural Sector, finances small cooperatives and communities whose average income is less than US\$280 a year. It also provides loans for agriculture, fishing and craft projects, as Since Ecuador's land reform well as aid for education, health programme began in 1964, it has and traditional cultural activiwell as aid for education, health pleased no one and left a ties. In efforts to avoid number of problems in its wake. paternalism, Foderuma channels

CONTINUED ON NEXT PAGE



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The attractions are many and

they range from the art trea-

sures of colonial Quito to the

vasiness of the Amazon jungle and to mile-upon-mile of sandy Pacific beaches. Ecuador also

owns the world-famous Gala-pages falands where incident-ally charles Darwin developed his meory of evolution.

In the last six years the num-

ber of tourists visiting Ecuador

ing 240,000 in 1979. Although the Government tourist board,

Dituris forecasts a slight drop

next five years, it is still expec-

vespecially neighbouring Colom-

in the rate of growth over the

• The majority of tourists come

has more than doubled, reach-

rita Kend

w up the reid

As many as 30,000 people construction, and so are some class downwards, services are more erratic. Cuenca, an attractive old highland city with a miles out in the Pacific, producer step on a South American August are peak months when poradores are under range of hotels from huxury class downwards, services are more erratic. Cuenca, an attractive old highland city with a miles out in the Pacific, producing the country was just an ted through the year, July and other step on a South American August are peak months when number of other projects on its hotels overflow and airlines are books including restaurants. hotels overflow and airlines are books, including restaurants, be coming specifically to Echador and the travel agencies are expanding their brochures

last year, Ecuadoreans spent far more than this abroad far more than this abroad — to be postponed — "we should particularly in the U.S. Efforts be encouraging the private to encourage local tourism have sector in the future, not investment with some met with some success, and a ing so much ourselves," comnumber of new tourist complexes, with camping and sports facilities, are being built. However, the pull of Disneyland and a Miami shopping spree seem difficult to counter.

The victous circle is difficult to break, says Ernesto Vásquez of Dituris: "People say the tourists do not go to places out-side the main cities, because there is no accommodation, but private investors do not want to risk their money in these areas. This is where public investment has been important."

The State has built a number -- from South American countries, of paradores or small hotels in out-of-the-way spots, such as Sabia and Peru, but nearly a Vilcabamba, famous for its cen-concurred are from the United tenarians, and Huaquillas on Vilcabamba, famous for its cen-States and a sixth come from the Peruvian border.

mountain huts and beach facili-Even though Equador earned ties, but, with budget restric-around US\$50m from tourism tions, the more ambitious among them will probably have ments to Senor Vásquez.

Development law

Most of the investment in tourism is national, rather than foreign, while a number of immigrants have taken advantage of the tourist development law to help finance hotels and

During 1979, 44 companies were registered for tax and other benefits under the law, the majority of them in Quito, Guayaquil and Cuenca. One large foreign project, a Holiday Inn hotel for Quito, is at the design stage, and Ecua-

doreans in the tourist business are looking for foreign partners

But most of the seaside and highland market towns have relatively few comforts to offer exceptions are Salinas, the country's main beach resort. complete with casino, deep sea fishing boats and lobster on the menu, and Imbabura province, north of Quito, where the glorious mountain scenery attracts a thriving weekend trade and the Otavalo market draws busloads of tourists.

Unfortunately, Ecuador's biggest tourist attraction is also one with limited capacity. Only 12,000 people a year are supposed to visit the Galapagos Islands, but the real figure is nearer 20,000.

"As long as there is rigid control and properly qualified guides to keep people to the foot-paths, there will not be serious ecological damage." says Señor Proano, whose company tours on specially-built for other new ventures.

boats to the islands. Every the sale of blow pipes and Away from Quito and Guaya-year, thousands of bookings have wooden carvings, but there is a quil, where there is a good to be refused in an attempt to growing reaction among some

More paradores are under range of hotels from huxury keep the islands' unique plant to Ingapirea, Ecuador's most 500 lb tortoises, the flightless complete Inca monument. boobies seem irresistable, and a disappointed visitor to the Galapagos is rarer than a red

> iguana. Both Dituris and the private sector agree that too little effort has gone into selling Ecuador in other countries, especially the U.S. and Europe, and that tourists should be encouraged to explore more of unknown Ecuador."

Apart from mountaineeringthe snow-capped peaks regularly attract climbers from Europe other attractions are trekking in the highlands; the jungle is also becoming popular. Weekly mar-kets in Indian villages are also a tourist attracton, though not always one to the liking of the inhabitants. In villages such as Otavalo and Salasaca, the loci crft industry has been strongly stimulated by tourists' appetites. for ponchos and wool sweaters. The jungle Indians profit from



The Plaza, Quito, with the Presidential Palace on the right

Air links between Britain and Ecuador were improved with the introduction by British Cale-

donian of direct services last independent airline serves Ecuador with a weekly DC-10 service which leaves London Gatwick airport just before midnight on Thursdays and calls at Guayaquil en route from

Caracas to Lima. On Sundays the northbound service from Lima calls at Quito. then at Caracas before returning non-stop to London Gatwick. As well as serving British and Ecuadorian business interests, the service has made Ecuador

Ешгоре.

Reflecting this, the British Caledonian sister company, Blue Sky now markets a 19-day holiday entitled "Ecuadorian Discovery," including a jungle safari, a tour of Quito and several days in the Galapagos

Jungle safari

Although tourism is relatively new to the Amazon region, tour operators believe this is one of the most important areas for growth. Two safari lodges and a "Flotel," which cruises the River Napo, also offer adven-tures on jungle trails and in

groups against performing in more accessible for tourists from. The Government sees tourism folk dances and having their pic. Britain and other parts of both as a generator of dollars ment. It is sponsoring two local "hotel schools" to train Ecuadorians. More than 5,000 hotel beds are to be added during the next five years and five holiday camps are to be built for internal use. .

"We have the potential for growth in tourism-the landscape, the climate and the history," says Senor Proano. The problem is to make use of it without destroying it, as the Galapagos example so clearly shows. But there, it is the goats -- rather than the humans-that have done most damage.

Sarita Kendall



An Indian women harvests potatoes at Latacunga

Crop production

CONTINUED FROM PREVIOUS PAGE

funds through local community still very poor. Imports of organisations and emphasises Holstein cattle for breeding the "self-help" aspect of their have improved the stock in the

apperation central Sierra and in Azuay in

An agricutural development the south, but investment is
law, passed by the military limited and efficiency low.

Government last year, was well on the other hand, substanreceived by landowners for the tial investment is taking place protection it gives them against. expropriation and land in-

vasions.

The law includes a number of Cavendish variety of banana is measures which concern almost complete. The National medium-sized farms, but very Banana Programme's spraying and technical assistance cambittle for the minifundistal which still produce a substantial proportion of the food con-sumed in orban areas—although not enough to cover local needs, and increasing amounts of grain have had to be imported as farmers have ceased to grow

wheat on a large scale. The internal support price is nearly double the import price per ton, but production costs are very high on the moun-tainous slopes of the Andes borazo has gone ever to barley, been completed.

which is used in the brewing producing cocoa, with Guayas industry. Even so, nearly half producing cocoa, with Guayas and Los Ríos as the main grow to be imported.

Whear imported.

to be imported.
Whear imports are now up to

potatoes and rice, while more falling rapidly in recent years, credit and better prices are ex- and foreign buyers are finding pected to encourage coastal if more difficult to obtain farmers to grow enough cotton Equador's aroma quality.

The coffee sector, wh However, there have been some mainly centered in Manabl, has rice imports (as well as sizeable not seen great success, though shipments filtering across the last year's exports earned Colombian border). Powdered US \$247m. Plants have been

in theory, processors are the Programme's agronomists, allowed to add up to 25 per Ecuador's plants are so old and cent powdered milk in the local badly in need of renewal "that plants. In practice, they bally in need of renewal "that plants. In practice, they it would not be such a bad normally use more than half thing if a touch of rust made Even though dairy farming is people swarp of the need for considered to be more advanced investing in their plantations." than most other highland farming, yields on the big farms are

on the coast, particularly in the banana and cocoa crops. The change-over to the high yielding paigns, coupled with the efforts of exporters to control quality, have improved Ecuador's comnational banana market. Last year's exports reached 1.4m tomes, bringing in nearly

A massive rehabilitation pro-gramme for cocoa plantations is also beginning, and a US\$40m loan from the World Bank will be available after a

Wheat imports are now up to at least a quarter of the area around 300,000 tonnes and the needs rehabilitating of production and yields are to be maintonnes, compared with 80,000 tained. Some 80 per cent of cornies, ten years ago.

Among the other crops for domestic use, there has been an increase this year in the areas planted with maize, felling rapidly in recent years potatoes and rice while more felling rapidly in recent years.

Colombian border). Powdered estacked by disease. And with milk imports are also increas. Hitle credit available for replantmilk imports are also increased ing.

Dairy farmers, as with so ing more resistant, higher-yielding more resistant, higher-yielding more resistant, higher-yielding warieties, production has suffered. The news that coffee milk is too low to be profitable, and about half of the milk produced in Ecuador is used for the Coffee Programme to the production of butter and cheese, on sale at high, uncontrolled prices in city supermarkets.

Hitle credit available for replanting more resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered. The news that coffee resistant, higher-yielding varieties, production has suffered and the news that coffee resistant, higher-yielding varieties, production has suffered and the news that coffee resistant, higher-yielding varieties, production has suffered and the news that coffee resistant, higher-yielding varieties, production has suffered and the news that coffee resistant, higher-yielding varieties, production has suffered and the news that coffee resistant has a suffered and the news that coffee resistant has a suffered and the news that coffee resistant has a suffered



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Rapid developments in industry

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crédito internacionales.

President Roldos has managed to convince the majority of businessmen that he intends Lujosas suites. to work with the private sector
—and, indeed, the National
Plan relies heavily on private
investment—but Congress has Chef europeo especializado en cocina típica ' e internacional Bar y restaurante de primegenerated some bad moments by, for example, calling for the nationalisation of the pharmara categoría. Rent-a-Car. centical industry, a move that Agencia de viajes, tours por la ciudad y tours en yate por el Río Guayas. was rapidly squashed by the

Government.

Despite the rapid development of industry—during the boom years of the mid-seventies the growth rate went over 13 Primer hotel en Ecuador con sistema de computación para brindarper cent-manufacturing contrile'el mejor servicio butes less than 20 per cent of Aceptamos las más importantes tarjetas de

Ecuador's GDP.

Most industries are still small family owned enterprises producing traditional consumer goods. But the modern sector has been growing relatively fast, with the emergence of large food processing and textile plants employing over 500

flourished during the past ten years. And industrialists see

no reason why should not con-

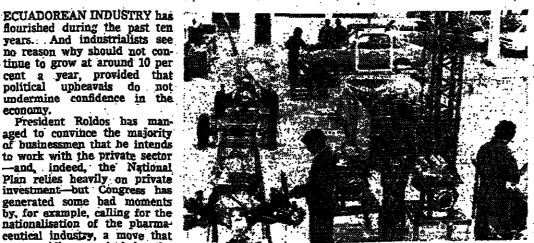
tinue to grow at around 10 per

undermine confidence in the

Intermediate goods, such as chemicals and metals, now account for some 22 per cent of industrial output, and capital goods, which have grown more rapidly than other groups, represent about 10 per cent of

However, during 1979 only about 70 per cent of installed capacity was used on average, a slight decrease compared with he previous year.

Foreign investment has been moving into the industrial sector, particularly from the United States and Germany, and Ecuador is relying on further foreign capital for the increases—the situation is not realisation of some of its most easy but it's certainly not important programmes over the next five years: vehicle production, steel, petrochemicals, cement and fertilisers.



Production of the Condor car in Quito

Between 1972 and 1979, direct month, coupled with his agree-preign investment in industry ment to a 40-hour week, from eached about US\$230m, with October, brought forth a storm foreign investment in industry reached about US\$230m, with chemicals and food processing absorbing half of this.

Although local industrialists claim that political uncertainty has virtually paralysed their activities, and that plans for plant expansion have been shelved, foreign businessmen seem to be taking a longer-term view, and trade missions continue to show strong interest in investing in Ecuador.

Production costs

There are some immediate problems, however.

Eduardo Villaguirán. president of the Chamber of Industry of the capital's region, com-ments: "There's not a single sucre to be had in the bank, and we have to pay high interest rates for dollars. It would be better if the government put up the interest rate here, at least there would be something to borrow. tremendous growth in produc-tion costs because of wage easy but it's certainly not unsalvageable

of protests from factory owners, with warnings of unemploy-ment, bankruptcies and high inflation.

Small industries and artesans are the most affected, but the increase in costs throughout the sector is expected to take infla-tion over 20 per cent this year.

The Government has promised special support and \$30m in credits for small industry, which provides some 75-per cent of it only contributes 30 per cent industrial employment though of value added in industry.

In Cuenca, for example, nearly 50,000 people work in the Panama hat industry, which last year exported \$8m worth

Ecuador's industrial exports increased four-fold between dollars. It would be the government put up test rate here, at least should be something to we also have a one growth in product which make up the government put up the government put up the government put up test rate here, at least should be something to went though a substantial part car category, and a truck in the 3.0 to 4.6 ton group, which importance of semi-processed General Motors is to produce.

The Volkswagen agreement, and a plant for the pronearly half the total.

Among the major export suc-

cesses are household electric President Roldós' approval of goods, worth \$14m in 1979 and

Ecuador's biggest companies Agency. with over a thousand employees. Apart

Another growth item has been seafood products, reflecting the boom in the fishing industry. Total fish exports, including classified as nonindustrial, came to \$115m in 1979 compared with \$28m in

Ecuador's main port. Guayaquil has been a natural focus for industries based on coastal resources such as fish, cocoa and coffee, while Quito has attracted a greater pro-portion of textile, clothing and non-food light industry.

The Government is trying to counter the tendency for companies to concentrate in the two main cities, and a series of tax incentives have encouraged some firms to build plants in the highland towns of Cuenca, Ambato and Riobamba, as well as Machala, Portoviejo and Esmeraldas on the coast.

Water shortages in Quito and Guayaquil, together with a series of power black-outs in the capital, affected commerce and industry last year, but com-munications in other parts of the country are too poor to encourage decentralisation.

However, one of Ecuador's iggest industrial projects, a Volkswagen passenger vehicle plant, is to be located in Riobamba. The company will begin assembling the Passat model next year, while construction goes ahead on the plant for the manufacture of the Golf, which is to be exported to the Andean countries.

Under the Andean Pact Vehicle Programme, Ecuador

including a plant for the production of 100,000 engines a year, calls for an investment of \$110m, of which about half a law doubling the industrial sold mainly in the Andean is to come from Volkswagen minimum wage to U.S.\$150 a countries by Ecasa, one of and the German Development

General Motors will eventually be making 150,000 gearboxes a to start construction on a plant

The price of the Volkswagen car is uncertain as yet, but will apparently fall comfortably below import prices of similar cars, which currently stand at around \$14,000 with tax.

Ecuador already produces a small number of passenger cars, appropriately named the Andino and the Condor. Output of the Condor, a fibre glass-bodied version of the Chevette, runs to eight a day and the car sells well on the local market.

Manufactured by Aymesa, in which Clyde Petroleum of Great Britain has substantial interests, the Condor is made with nearly

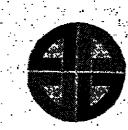
One of the Government's biggest projects over the next five years is the establishment of a steel industry. Ecuasider,

Apart from the light truck, Army's industrial arm has a eneral Motors will eventually 51 per cent share is planning year, mainly for export to Pact with a capacity for producing countries. with a capacity for producing 210,600 tons of steel a year, as soon as possible.

A site near Machala has be chosen, and the industry will supply local needs from 1983. Second nad third phases call for a doubling in production capacity and the installation of a plant for direct reduction. using natural gas from the Gulf of Guayaquil.

... Investment in the first phase is expected to be \$120m, of which a large part will have to be foreign loans.

Agro-industrial projects are, also high on the government's. list. Some 50 per cent of hte raw materials used in 4 Oper cent national parts, but Ecuadorean industry are-the General Motors engine is imported and apart from stime-imported from Brazil. lating local agricultural output. lating local agricultural output agro-industries can be sited away from Quito and Guayaquil.



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An urgent need for more oil exploration

EXPLORATION IS to be the higher potential. ant source of foreign earnings

have been ruled by oil since can be raised to 220,000 barrels 1972, when the Amazon fields without damaging the fields. Started producing, yet during these years hardly any of the in the northern Amazon proprofits were ploughed back into

drilling exploration wells. Sr. Jose Corsino Cardenas, Minister of Natural Resources, has promised that new risk exploration contracts will be ready within the next few months and, judging by the flow of oil executives through Quito, the Government should be able to draw back some of the foreign companies that fled the country when Ecuadorean nationalism led to OPEC membership and a strong stance on the defence of non-renewable natural resources.

Both the coastal and the Amazon regions are judged promising for exploration. Apart from the discoveries of oil in the northern Ecuadorean Amazon and natural gas in the Gulf of Guayaquil. Peru is exploiting fields close to the border, and heavy crude has been found in the central

Amazon province of Pastaza.

However, Sr. Cardenas' view that known oil reserves can be doubled over the next five years is thought to be very optimistic. even if the Government can achieve its target of drilling more than 300 wells during the

Encouragement

The state oil corporation, CEPE, recently found a new oil-bearing structure near the Colombian frontier, and though the production of the first well, Secoya 1. is estimated at little over 6,000 barrels per day, another well, Shura One, is expected to produce over 10,000 barrels a day and the discoveries have heartened the national oil industry. After several years in the doldrums, with a few policy decisions being taken and repeated postponement of the risk contracts, fillip was badly

The Roldos government is making energy a priority, and the oil sector is to absorb more than US\$1bn of public investment About US\$60m will be spent on exploring and develop-CEPE following the failure of Northwest Pipeline to fulfil its crude are the Antil contract. The agreement called the U.S. and Chile. for the use of the gas in a Production in 1980 was forefertliser industry, but North- cast at about 215,000 barrels west insisted that this would not per day, provided the new Yuca

Though the proven reserves but it may now be higher if of the Amistad field are estimated at less than 300bn cubic feet, it is reported that other over half will be needed to fields nearby may have a much

cornerstone of Ecuador's oil Ecuador produced 78m daily left for export—slightly demand for fuels, and US\$112m policy for the next five years. barrels of crude during 1979, 61 less than last year's figure. worth of products were export—substantial new per cent up on the 1978 figure. The CEPE is to commission ported last year. CEPE's represerves are found, the country The official rate of production a study of the Santa Elena fields finery at Esmeraldas has a capa-

will become an oil importer for the CEPE-Texaco structures to see whether a secondary after 1985 and the most import- in the Amazon basin was recovery programme is justified brought down to 204,000 barrels a day, but CEPE's manager, Sr. coastal production to 20,000 José Carvajal, says that output barrels other experts believe Ecuador's economic fortunes José Carvajal, says that output

duces under 10,000 barrels daily, and the old Santa Elena fields, which have been in operatio nsince the 1920, now produce about 2.000. CEPE officials say an extra 25,000 to 30,000 barrels per day can be brought into production during output at more than 200,000 barrels per day for several years, even with the gradual decline of the Sacha and Shushufindi structures in the CEPE-Texaco area.

On the basis of its crude re-serves, which are calculated variously at between 1.0 and 1.3bn barrels, and its exports. Ecuador is the smallest OPEC member. But with an Eucadorean as secretary-general of OPEC, and with the Latin American Energy Organisation (OLADE), based in Quito, Ecuador's presence on the international oil scene is stronger than its production would sug-

OPEC recently assigned U.S.\$5m to OLADE as a contribution towards the research and development of alternative sources in Latin energy America. OLADE's programme includes a study of geothermal power in Ecuador, and the organisation has also helped instal the first biogas plant in

the country. Sr. Cardenas applauds OPEC's co-operation with OLADE — a number of joint projects have been mooted — and says the Government is anxious to take an active part in programmes designed to help Third World countries with no oil resources. Although , the volume of

Ecuador's crude exports is falling as internal consumption rockets higher and higher, last year's oil earnings rose by nearly 75 per cent to U.S.\$906m as a fesult of the rise in inter-national prices. However, this figure is inflated by the inclusion of royalty earnings with direct exports. About .7m barrels were sold on spot markets. Oil still represented 45 per cent of total export income ing the natural gas reserves of the Gulf of Guayaquil which they been handed over to the CEPF fellowing and the state of the for exports by volume. Ecuador's most important markets for crude are the Antilles, Panama,

be profitable enough and said the gas should be used to provide electricity.

wells in the CEPE-Texaco area are brought into production in the second half of the year.

will be nearly 100,000 barrels about 90 per cent of the local

and though the corporation has this is exaggerated. While oil reserves are falling.

domestic consumption of refined products is soaring up by 15 per cent a year. One of the Government's most difficult tasks is to restructure fuel prices and rationalise consumption, and President Roldos has pledged himself to carry through the necessary measures, shirked by the previous government for the political repercussions

The President will have to choose his moment carefully because any such announcement traditionally brings protesting in force. Ecuador's petrol retails for US\$ 20 cents a gallon. and the Government is subsidising fuel imports to the tune of US\$32 a barrel, or nearly US\$90m in all.

to 20 per cent of the country's than oil fuels.

Ecuador's refineries cover

city of 55,000 barrels per day and the Anglo Ecuadorian Oilfields plant at La Libertad can process 32,000 to 36,000 barrels.

depending on the crude used.

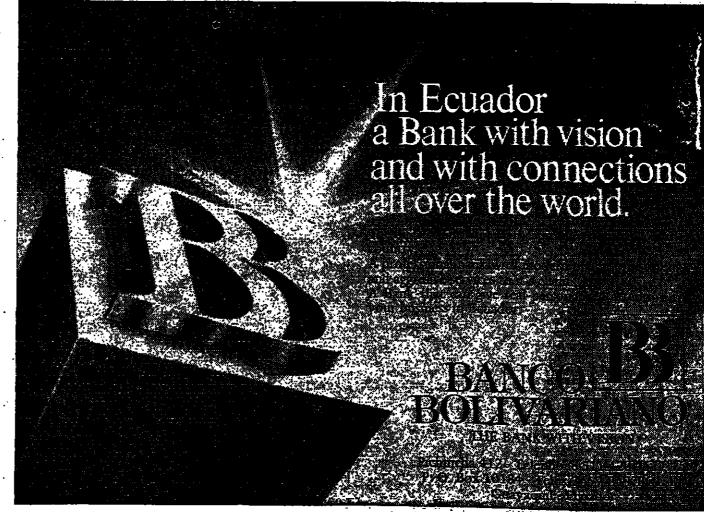
There are also two other smaller refineries. Plans for expanding the capacity of both the bigger refineries have been drawn up, and the CEPE has announced the construction of a new 75,000 barrels per day plant, but no

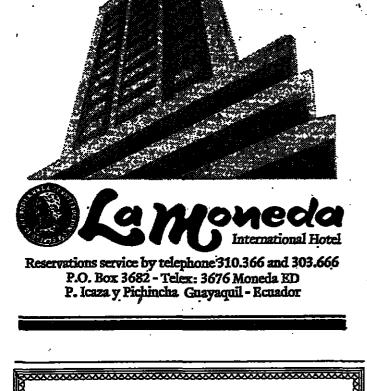
The CEPE's activities have ben growing steadily since the corporation was created in 1972. nationalists among Ecuador's oil experts would like to see the corporation take full and exploitation, but other believe it does not have sufficient experience, and that national funds should not be spent on high-risk exploration efforts.

decision has yet been taken on

which alternative will go ahead

Nevertheless, the CEPE is The CEPE calculates that up already taking a more active part in exploration, and will be refined production is being buying up to four drilling rigs smuggled across borders into Peru and Colombia, where drill about 30 wells in the prices are much higher. The Amazon region, including sev-Government also plans to eral exploratory ones in the change the overall structure of Secoya area. Very deep wells, energy consumption so that a up to 20.000 feet down, are progreater proportion of electricity jected for the CEPE-Texaco is generated by water, rather area, and for manabi.





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ECUADOR VI

Sr. Germanico Salgado faces some daunting tasks in his capacity as Ecuador's Minister of Industries. His profile, and that of several other well-known personalities, are presented here by SARITA KENDALL:

Germanico Salgado

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appointment as Minister of Industries could hardly be more appropriate. After forming part of the Andean Pact's technical, junta during the early years of the Andean common market, he is now on the other side of the fence, responsible for implementing the industrial programmes and tariff changes planned by the junta.

He says that experience has changed his attitude towards the pact "I'm more concerned with the practical side of the agreements than planning new projects. We had to take decisions very quickly at the beginning, but now it's more important in consolidate what has been done so far."

Although Sr. Salgado, 55; believes the pact is making headway, "progress is slow and there are many points of con-Ecuador's industry has undoubtedly benefited from the size of the Audean market, and a number of new plants have been set up to take advantage of the industrial programmes. example, Foreign investment has flowed exchange. into industry, within the limits of the pact's Decision 24, and, despite the cries of doom coming from the private sector, there are no signs that political instability is producing adverse

As tariffs between the countries inside the Andean region are cut back, industry will be mittee and has taken an active exposed to competition from Peru and Colombia. Ecuador's international economic order. special status allows it many exemptions, however, and the Latin America about current Minister of Industries believes developments in these talks



Sr. Germico Salgado

dorean industry are overgenerous in some areas, and finished—an many ways we are the system needs cleaning up, going backwards," he says.

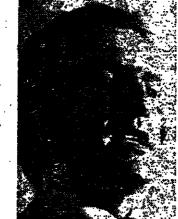
"We must rationalise protection so that there is one instrument for each objective, not a dozen," he says. He would also like to see

local companies open up more. rather than remaining family businesses, and the Government is considering the possibility of conditioning benefits to, for example, a listing on the stock

Discussions

An economist well-known in international circles for his Work on economic integration and planning, Senor Salgado is president of the United Nations Development Planning Compart in discussions on the new But he is not optimistic for

developments in these talks.
"They are stagnant, there there is time to build up the "They are stagnant, there manages to maintain a weakest sectors. In fact, incenhave ben on real results. It formal touch on the top fit tives and subsidies for Ecua- even looks as though the Inter- the Ministry of Industries.



Sr. Rodrigo Borja

national Cocoa Agreement is

Ecuador has been an active national producers' organisa-tions—oil and cocoa are two examples—and, according to Sr. Salgrado, the Government is studying the pros and cons of joining the Bogota coffee group and the Union of Banana Exporting Countries.

Apart from nearly 12 years spent working abroad in interorganisations, has also taught economics at Quito's Central University, and was technical head of the National Planning Department—a job he particu-

Having been very much a professional economist for most of his working life, with a number of publications to his name, he nevertheless adapted quickly to his new political role. But he is still refreshingly unevasive in his answers, and manages to maintain an informal touch on the top floor of

Rodrigo Borja

A NEW generation of politicians illiterates have the right to vote, is rapidly replacing the old political parties are showing party chiefs and ex-presidents more interest in courting the of Ecuador, and a new genera-rural population, and the tion of political parties is oust- Democratic Left has plans for ing the traditional Liberal and increasing its political activity Conservative groups:

No group has grown as fast as the Izquierda Democratica (Demecratic Left), founded only ten years ago. It is already reckoned to be the second political force in the country ,with 12 representatives in Congress.

Rodrigo Borja, the party's energetic young candidate in Ecuador's last presidential elections, has drawn a large personal following, particularly in Quito, his home town.

Although Sr. Bofja is a lawyer and has been professor political science at Quito's Central University since 1963, now devotes himself to politics, full time. Elected one of the 12 national representatives in Congress last year, he has been a fiery—and often aggressive—figure on the debating floor, uncompromising in his political beliefs.

The Democratic Left was started by a group that included people from the Socialist Party, the Left of the Liberal Party and many who had found no other channel for political activity. Its slogan is "Social Justice with Freedom." Sr. Borja

describes in an amusing way how he and some friends were painting the phrase along near hoardings advertising aspirin, beer and insprays. One illiterate Indian woman gave permission for her wall to be used as a billboard, and then said: "What pain is this medicine good for?" "For th pains of the country!" she was told. Most of the Democratic Left's support comes from professional middle class

in the countryside. Although Assad Bucaram and the Concentration of Popular Forces hold sway in the barries of Guayaquil, the Democratic Left has made some in-roads, even here.

The Democratic Left is often called a social democrat party, but Sr. Borja prefers the term "democratic socialism," and places the party firmly to the left of centre—a slot which seems genuinely appropriate in

the case of the Democratic Left. Three months after President Roldós took over, it looked as though the party would join the cabinet, but Sr. Borja says that the leadership of the Democratic Left campaigned for far greater social changes than the Government would accept.

In Congress, the Democratic

Left has played a difficult role, caught between the supposed pro-Government Concentration of Popular Forces and right wing groups, often supporting the Government when Sr. Bucaram pushed through legislative projects aimed to embarass the President. Keeping its pedigree clean, the Democratic Left has so far refused to enter into formal political pacts, and despite the party's readiness to join other groups in persuading the President against a plebiscite, it has stayed clear of the Roldos-Bucaram power struggle.

"Roldós' problem is to fulfil his electoral promises - if he does not live up to people's expectations, that will produce a far more serious crisis." says Sr. Borja.

With the Concentration of Popular Forces badly split, "the wday is open for our ascent," groups and from people living says Sr. Borja. And, at 43, there the poor barrios, especially the highlands. Now that is plenty of time for several cracks at the presidency.

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Miguel Tankamash

MIGUEL TANKAMASH Is an authoritative figure, particularly when he wears the feathered head-dress for formal occasions as president of the Shuar

Federation.
As representative for 30,000 Shuar Indians, he has spoken in Congress, discussed the group's problems with President Roldos and "done the rounds" of the ministries in Quito, try-ing to influence Government policy in the Amazon region.

in more relaxed surroundings Tankamash jokes about the fact that the Shuar are more commonly known as the Jivaro, the "head-shrinkers" of the Amazon jungle, feared by all. The Shuar are proud of their

freedom, of their victories over Inca and Spanish conquerors. and they have always been much admired by other Ecuadorean faded into the background. At Indian groups for their prowess in war. "We have never been anyone's slaves," says Senor

ship, with the formation of a highly successful, cohesive

the committee, and, at 38, he was re-elected to the presidency Though the Salesian priests,

who work in the Shuar area of the south-eastern Ecuadorean Amazon, had a strong influence. during the early years of the federation, they have recently formal title-deeds.



one time, the only schooling availble to a Shuar was to be a boarder at one of the mission Tankamash. schools, and Sr. Tankamash But now, the Shuar are showing a different kind of leader courses under the Salesians. bi-lingual (Shua and Spanish)

in 1964 and Sr. Tankamash was scattered through the lungle its first president. Since then, areas, in reach of the lungle he has served other terms. communities. Illiteracy has been virtually eradicated and, this year, several hundred Shuar are starting secondary school by radio, for the first time. One of the federation's most important tasks, according to Sr.

Now the federation runs a

landholdings Shuar's

As more and more colonists move into the Amazon from the highlands, land is becoming more scarce and the Shuar have already had to adapt to a settled form of life, relying on farming more than hunting for

" Now people speak of colonis ing the Amazon region, as though there weren't ethnic groups already inhabiting the area, with their own cultures and values," says the Shuar

Overseas aid To prove that they make good

ise of their land, the Shuar for which they have received aid from European countries. Other federation activities include a health centre in Sucue. its headquarters, and 14 smaller health posts in the communities, as well as local trail making and bridge building. Senor Tankamash believe the Shuar people must decide their own future, rather than have a foreign culture forced

upon them. The Shuar should retain their own identity, solve their own problems, and when they they are able to do this, offer their experience to other

The federation has already become a model to which others, among Ecuador's two and a half million Indians, aspire. hTe Shuar have been instrumental in drawing Indian groups, from the highlands, the coast and the jungle, into closer contact.

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Oswaldo Guayasamin

DURING HIS third year at the Quito School of Fine Arts, Oswaldo Guayasamin was expelledm for being "too revolu-tionary." But the school had to econsider its decision when end-of-term exhibition; because there, was so little to show without Guayasamin's prolific

At 60 years of age, Ecuador's outstanding artist says he is "still a protest painter" and he continues to werk as hard as everonly lamenting that life is too short, and the demands on his time are too great.

As the child of an Indian father and a Mestizo mother. he felt the effects of racial discrimination, and says that, even now, many Ecuadoreans, ridicule the idea of spending US\$20; on paintings "by some wretched Indian." A trip to the United States broadened his, horizons and a series of exhibit than any other (including "The tions in U.S. cities established Path of Tears") expresses the his- reputation - reputation human tragedy and suffering subsequently reaffirmed by that dominates Guayasamin's. prizese at the São Paulo and painting. Mexico Bienals, as well as numerous shows around the

In Mexico, Guayasamin worked on a mural with Orozco and met the Chilean poet, Pablo. Neruda, forming a friendship that led him to Chile many times. He was there when President Allende assumed power and, after the 1973 coup, expressed his grief for Allende, Neruda and Victor Jara in a painting called "Tears of Blood," an angulshed, skeletal face and hands in the series The Age of Anger."



This series.

"I ment sevien years travel-ling," he says, "I went to all the concentration camps with my camera and sketch book-European painters hadn't shown the suffering and genocide, so L from another continent, felt that I must paint it."

"This century has been the most tragic period in history. Never before have there been

amin's work reflects human — whether in the "Women Crying" or in the oft-repeated theme of tor-tured hands — he has also series of landscapes expessing the blue, green and red moods of volcanic Pichincha mountain, which towers over Quito. He is now finishing an 18-metre-long mural for the Provincial Council's new building, and a huge statue of Ruminahui - an Ecnadorean Indian hero who fought the Spanish conquisto-

After 6,000 paintings - let alone his drawings, sculpture and other work — he still manages to shut himself away from enemies (of which he gleefully says there are many), family and followers, to put in a 14 hour day.

Guayassamin has set up foundation through which he is donating 400 of his own paint ings (including nearly all those "The Age of Anger") to Ecuador — partly because most of his work is outside the country, and partly because he sees this as a politaci obliga-

"I am ahead of the times," he explains "Maybe, one day, Ecuador will be a socialist country."

He will also bequeath his new house to the foundation. His home is a dramatic white Never before have there been creation, high on the hills above such crimes. The artist is like Quito, which, with a superb colan antenna — he picks up the lection of pre-Golombian sofrow, the happiness, the ceramics, colonial art and amblitions and the desires of the foreign paintings, is, as he people and interprets them." proudly points out, "a museum Although so much of Guayas- in its own right."

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Hambros June 18 Final 67.24

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RECENT ISSUES

ern Produce,...May 30 Final 3.082

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BIS FIGURES

Euromarket tops a trillion

banks in the U.S. rose by largest quarterly increase ever, national Settlements.

The increase suggests that the oil producers were generally less perturbed than has been widely believed by the U.S. freeze of Iranian assets last November, all the more so since the total new supply of petrofunds to the world's major banks slowed during the quarter to \$13.4bn, from the record \$19.6bn in the third quarter.

As oil prices rose last year banks.

OIL EXPORTING countries the oil producers became net pumped a record amount of depositors in the banks to the money into the U.S. domestic tune of \$30.1bn, after having banking system in the final been net borrowers of \$12.1bn quarter of last year. Despite the in 1978, the latest BIS figures Iranian crisis, their deposits at on international lending show.

This helped to swell the \$3.6bn, or 34 per cent, the volume of net international bank credit by \$130bn last year according to the Bank for Inter- to a total of \$665bn after an expansion of \$110bn in 1978.

The BIS defines net international bank credit as the external assets of banks in the Group of Ten industrialised countries together with Switzerland, Austria, Ireland and Denmark and branches of U.S. banks in the main offshore centres, adjusted to exclude double counting of funds redeposited with other reporting

\$1.110.9bn in the final quarter countries in international banks,

A feature of the fourth ing countries in international markets. Bank lending to this group rose by \$12.2bn to \$158.8bn. Over half this increase was accounted for by three countries alone: Argentina with gross new borrowings of \$2.9bn, and Brazil and Mexico

with \$1.9bn apiece. Eastern Europe also maintained a high pace of borrowing, with claims on Poland making up nearly 40 per cent of the \$3.1bn increase in credits to these countries. This was

before tax and special items in

the business year ending next

March 31 to be little changed

respectively, of 1979-80. It foresaw a decline in exports to the

U.S. and the Middle East and

increased costs resulting from

higher oil and raw material

prices. It planned, however, to declare an unchanged Y5 divi-

Sumitomo forecast that its

profit before tax and special

items in the current year would decline slightly, from a

record Y78.91bn in 1979-80, following a rise in interest costs

and higher fuel and raw material prices. Sales were expected to be almost un-

changed, with domestic demand

for high grade steel pipes

more than offsetting a decline in exports to the U.S. and

Kobe Steel said that it was

unable to make a clear busi-

ness forecast for the year end-

ing next March, but that it expected first-half sales of

about Y590bn, compared with

Y538.89bn in the second half

of last year and Y485.84bn in

dend for the year.

Middle East.

Discount houses had a com- tributing mainly to the short- hand the Bank may take off some though on the latter day the

Bank of

In gross terms, the assets largely matched by a \$2.8bm ose \$218.1bm last year to increase in deposits by these with the growth slowing to with the Soviet Union account-\$69bn from \$95bn in the third. ing for 60 per cent of the new

The BIS points out that the quarter was a record increase final quarter of last year saw in borrowing by non-oil develop the tightening of U.S. monetary the tightening of u.S. monetary policy, informal curbs on international lending by Japanese banks and the confusion in the syndicated loan market following the Iranian asset freeze.

But it says that there is little evidence to show that these events were a serious constraint in the recycling process of surplus oil funds.

For the year as a whole, net bank lending to non-oil developing countries expanded by some \$24bn, it says.

Japan's big five steelmakers average a profit gain of 141%

to help round off a set of reports tonnes. The company increased of huge earnings rises by to 61.2 per cent the amount of Japan's five major steel com- steel made through the con-

crease by Kawasaki was accompared with the traditional ingot panied by results from Sumi-casting method, in which more

combined profit for the year of Sumitomo reported sales of Y245.6bn (\$1.1bn) or 141 per Y1,224bn, for an increase of 19 per cent Sizeable increases were year's 101.9bn.

The bulk of the increases came from greater export earnings and with the advantage of amounted to Y476.5m, or 38.9 a decline in the value of the yen per cent of sales. during the year. But the industry achieved increased pro- steelmaker, announced sales of duction despite sluggish inter- Y1,024bn, an increase of 15.9 per national demand, and the five cent. Crude steel production companies have shown the rose 5.1 per cent to 7.6m tonnes. methods of production. Kawasaki said that its sales

KAWASAKI STEEL has an-rose 19.5 per cent to an all-time nounced record profits, almost high of Y1,147bn (\$5.1bn) and trebled to Y50.1m (\$224m) for that raw steel production the financial year to March 31, increased 4.7 per cent to 12.92m tinuous casting system, which The 187.4 per cent profit in- greatly cuts fuel costs, as com-

tomo Metal Industries snowing 1938.9m profit after tax, an increase of 155.5 per cent over the previous year. Kobe Steel Nippon Steel, Kawasaki inannounced profits of Y25.6m, up 1974 nor cent. from Nippon Steel and Nippon Nippon Kokan, the second Kokan KK announced earlier, largest steelmaker, announced a the five steel giants showed a dividend rise to Y4, from Y3. reported in the company's speciality production of steel pipes, plates and wires. Exports

> Kobe, Japan's fifth largest energy-saving Exports increased 15.7 per cent to Y250.6m. of last year a Kawasaki Steel said that it the first half.

Discount houses pause for breath

May 29

(£2211<u>2</u>2-1108£3)

after a distinct improvement in £10n of Treasury stock still once again the recall of 1 per

paratively easy time last week age. On the horizon looms the of the pressure

Hitch in Chrysler

lenders to the Chrysler Motor Company and Government officials ended at the weekend with 20 banks still holding out against the proposed terms of the Government-led rescue.

from the meeting to say that the banks involved wielded

If they continued to hold back, the 20 banks "would bear responsibility for the demise of the company and its devastating economic consequences."

for it to be put into effect. can banks are known to be

loan commitments of the rebel bankers was less than \$30m out ing package worth \$5bn.

through, and the Bank tidied up by huying a small number of Treasury bills. On Friday the bank actually mopped up a sur-

So last week was probably the

29,50,29,80 66,80,87,40 12,91,13,00 9,63-9,69 4,14-4,1750 1915-1965 521,526 4,64-5750 11,32,11,41 111-115

Treasury Secretary, emerged considerable influence," but

CURRENCIES, MONEY and GOLD

Mr. Robert Carswell, Deputy

that he believed they would eventually agree to go along with the plan, in time for its proposed completion date of June 13.

The more than 300 banks involved in loans to Chrysler have stated that all lenders must participate in the plan

seeking repayment Mr. Carswell said the total

rescue THREE-DAY meeting of

By Ian Hargreaves in New York

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EQUITIES

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Renunciation date usually last day for dealing free of stamp duty. b Figures based on prospectus estimate. g Assumed dividend and yield. u Forecast dividend: cover based on previous year's earnings. F Dividend and yield based on prospectus or other official estimates for 1979. Q Gross. T Figures assumed. I Cover allows for conversion of shares not now ranking for dividend or ranking ‡ Cover allows for conversion of shares not now ranking for dividend or ranking only for restricted dividends. § Plating price to public, p‡ Penca unless otherwis indicated. † Issued by tender. ◎ Offered to holders of ordinary shares as "rights." ⇒ Issued by way of capitalisation. §§ Reintroduced. ¶1 issued it former preference holders. ■ Allotment letters (or fully-paid). ◆ Provisional of partly-paid allotment letters. ★ With warrants. †† Unlisted aboutly. ‡‡ Issue as units comprising 2 participating pref. shares and 1 ord. share at \$3.50 pe unit. † Dealings under special rule.

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appears monthly in the Financial Times.
It will be published on the following dates in the remainder of 1980;

JULY 14 AUGUST 12

SEPTEMBER 15 OCTOBER 14

NOVEMBER 11 DECEMBER 16

The Financial Advertisement Department

OFFSHORE & OVERSEAS—contd.

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\$20 Engles \$10 Engles \$5 Engles

GOLD

THE POUND SPOT AND FORWARD May 30 One month 2,3220-2,3625 2.3440-2.3460 2.7150-2.7170 4.57-4.58 66.50-66.60 12.94-12.95 1.1200-1.1210 4.16-4.17 2.6950-2.7400 4.55-4.60 66.40-66.80 12.90-12.99 1.20-1.10c pr 1.1180-1.1225 4.14-4.18

short term liquidity levels. It outstanding from

May 30

the past few months, with tax once again.

was not so much a rest but more England repurchase agree-

a pause for breath. Houses are ments. The unwinding of the currently sitting in the eye of facility is due in two £500m

a hurricane. On the one hand lumps, both in June, unless the

they have braved the consider- Bank of England decides to

able shortages experienced over postpone the settlement date

payments and the Government's This might just happen since

heavy gilt sales programme, con- the payments are within four

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EURO-CURRENCY INTEREST RATES

Portugal Spain Italy Norway France Swaden

111g-113g 111g-113g 111g-113g 111-1114

174-171₂ 171₈₋174₆ 17:-1714 16-1612

1719

nance Houses Base Rates (published by the Finance Houses Association) 18 per cent from May 7. 1980. Clearing Deposit Retes for some at seven days' notice 15 per cent. Clearing Sank Rates for landing 17 per cent. Transury Average taribles rates of discount 16.0608 per cent.

Either way it looks as if the market will be called upon to discharge at least some of its committeents in June. least trying for some months,
On the four trading days last and although the market has week the Bank of England gave experienced setback after set-a moderate amount of help on back for most of this year,

is due at around the same time.

Tuesday, but money adequate on perhaps now the path ahead is a Wednesday and Thursday, al- little less fraught with danger OTHER CURRENCIES.

Luxembourg Frc. Malaysia Dollar... New Zealand Dir.

New Zealand Dir. Saudi Arab, Riyal. Singapore Dollar.

Sth. African Rand U A.E. Dirham

Denmark W. Ger.

1816-1823 8724-0.872

4228-4248 2,0440-2,0480 116,06-117,06 8,54-8.56 00,848-193-19 11,44-11,53

4.985.4.995 2.1305.3.1325 Switzerland.... .8337-1.8375 0.7828.0.7835 United States... 7.71-7.81 3.7010.3.7025 Yuguslavis... Rate given for Argentina is free rate THE DOLLAR SPOT AND FORWARD

> 1.40-1.30c pm 1.25-1.15 pm 0.23-0.28c dis 0.05-0.15c dis 6.91 4,00-3,90 pm 6.89 3,95-3.85 pm -2.64 0,44-0,49dis -0.61 0,40-0,50dis 2.3040-2.3460 2.0890-2.0910 1.1594-1.1597 1.9520-1.9540 28.37-28.39 5.5650-5.5575 1.7745-1.7755 10.00-13.00c dis 3.75-4.25ore dis 0.18-0.06pt pm

-9.15 75-125 dis -5.48 78-98 dis

1.7690-1.7890 1.7745-1.7755 0.18-0.06pf pm 30-45.16 59.90-70.35 69.90-70.00 22.42c dis 2

† UK and Ireland are quoted in U.S. currency. Forward premiums and disequents apply to the U.S. dollar and not to the individual currency. The following nominal rates were quoted for London dollar cartificates of deposit: one-month 9.40-9.50 per cent; three-months 9.50-9.60 per cent; six-month 9.50-9.60 per cent; one year 9.20-9.40 per cent.

Doljar Canadia U.S.Dollar Sterling 1218-1248 1218-1248 539-54 518-518 548-512 538-512 94g-94g 91g-95g 91g-91g 91g-91g 95g:12 912-95g 912-96g 912-96g 10-101g 10-101g 15-15 13-15 13-15 13-4-181₂ 1259-1278 1119-1154 10-104 93g-95g 91g-93g 101g-103g 167g-171g †Short term.... 7 days' notic 17-174 1778-1738 Three months. 171g-173g 165g-167s 147g-151g

Long-term Eurodollar two years 10½-10½ per cent; three years 10½-10½ per cent; four years 10½-10½ per cent; five years 10½-10½ per cent; nominal closing rates. Short-term rates are call for starting, U.S. dollars, Canadian dollars and Japanese year; others two days' notice. Asian rates are closing rates in Singapore.														
LONDON	MONEY	RATES	· .					-		·				•
	Sterling Certificate of deposit	interbank		Local Auth. negotiable bonds	House	Company	Discount market deposits	Treasury	Eligibie Bank Bills ē	Fine Trade Bills #	C	URREN	CY R	ATES
Over night	<u> </u>	10-1718	17-174	11.1	111	1634-16	10-17	_	. =		. 	Bank	Europe	an Special

Local authority and finance houses seven days' notice, others seven days' fixed. *Long-term local authority mortgage rets nominally three years 143-155 per cent; four years 143-144 per cent; five years 143-143 per cent. *Benk bill retes in table are buying rates for prime paper. Buying rates for four-month bank bills 163-155 per cent; four-month trade bills 16% per cent.

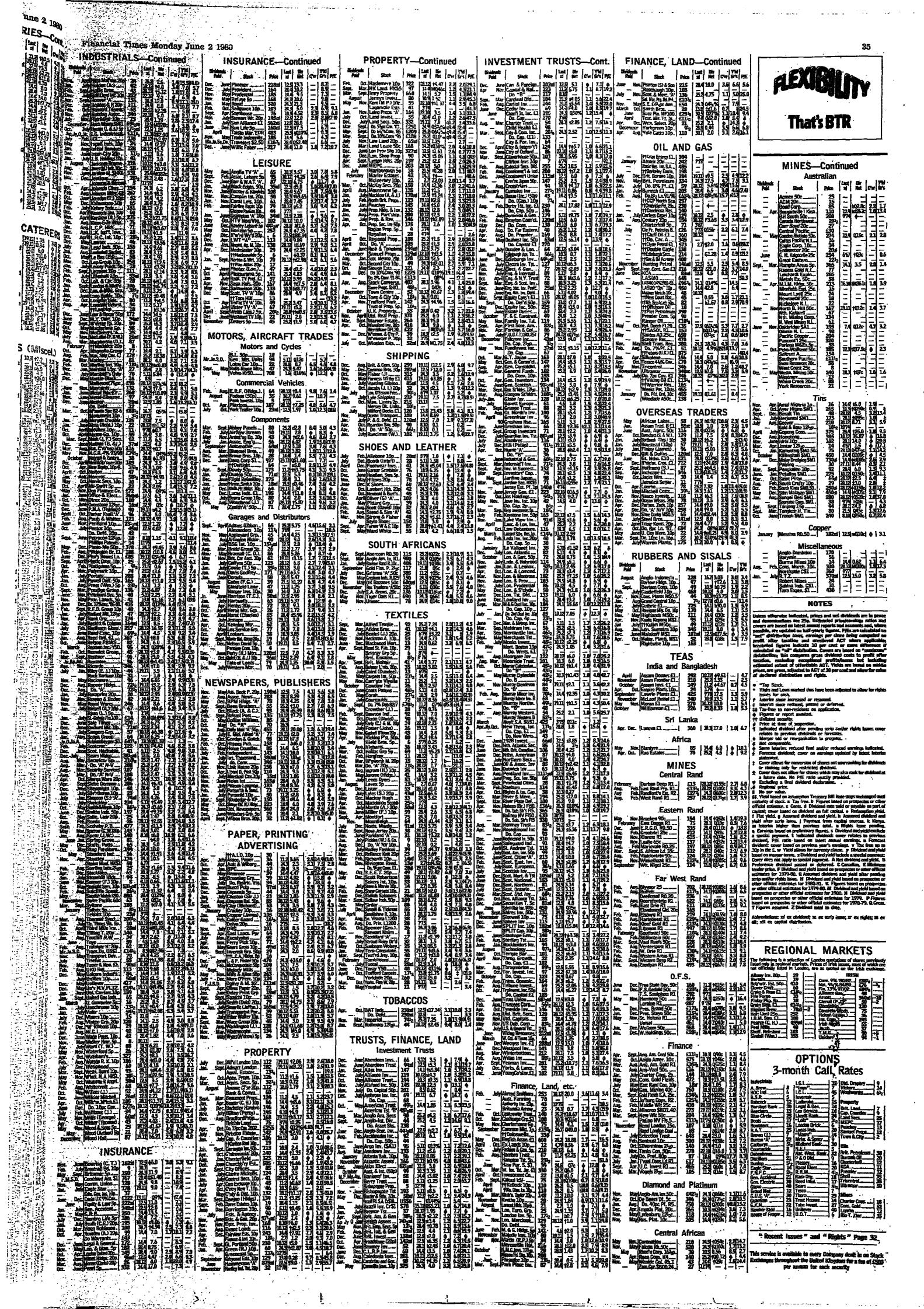
Approximate selling rates for one-month Tressury hills 15^{m}_{22} per cent; two-months 15^{m}_{2} - 15^{m}_{22} per cent; three-months 15^{m}_{2} -15 per cent. Approximate selling rates for one-month bank bills 17^{n}_{2} - 17^{n}_{2} per cent; two-months 16^{n}_{2} per cent; two-months 16^{n}_{2} per cent; one-month treds bills 17^{n}_{2} per cent; and three-months 16^{n}_{2} per cent; one-month treds bills 17^{n}_{2} per cent; and three-months 16^{n}_{2} per cent; and three-m

Bank European Special rate Currency Drawing Unit Rights 0.562811 0.605801 Danish K D'Mark Gulider 2,76626 6,85126 1183,68 315,322 294,135 6,40594 92.0122 98,9774

34

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FINANCIALTIMES

Monday June 2 1980



Barclays urges interest rates cut

BY DAVID MARSH

FURTHER PRESSURE on the Government for an early cut in interest rates has come from Barclays Bank.

Delaying such a move despite the deceleration of money sup-ply growth and the rise of the pound could lead to a period of unprecedented monetary tight-ness, the bank warns in its latest financial survey, published this

This would put further upward pressure on the exchange rate, with the pound already near its highest level for five

There is a clear case for cutting interest rates. Barclays says. The authorities' reluctance to do so meant they were effectively overriding the recent

money supply indicators.

The modest increase of 0.3 per cent in the sterling M3 money supply in April had brought the growth of this aggregate comfortably with the authorities'

Making allowance for inflation. real money supply had been falling sharply for the past year and the contraction since the autumn has been of about 16 per cent. This was similar to the figure recorded during 1974-1975 and indicated that the emerging recession would be of

at least comparable severity. The approach of the Treasury and the Bank of England was based partly on the view that the monetary slowdown since last autumn had been due to temporary factors and partly on concern about the implications for monetary growth of the removal of the "corset" controls this month. In both these however, the attitude over-cautious.

Barclays says.

The third and probably most fundamental factor inhibiting flexibility on interest rates was the recent acceleration of inflation. In particular the authorities seemed to feel that interest rates could not be cut until wage settlements showed signs of

This concern was understandable but it was difficult to see how further tightening could additionally constrain private sector wage settlements, given the now widespread knowledge of industry's severe financial oressures.

UK woos **Nippon** Electric

By Ray Perman,

STRENUOUS EFFORTS will be made over the next two months to secure a £20m microchip investment by the Japanese electronics group Nippon Electric for the UK.

The company has been looking for a European manufacturing base for more than a year and will make the final choice at the end of July between the Irish Republic—where it already has a small factory near Dublin – and Livingston New Town in Scotland_

The company has received its final offer from the Irish Industrial Development Authority. which is believed to be pre-pared to pay about 45 per cent of the start-up costs of the ven-ture, which will build up to employ 600 people after 31

Under EEC competition guidelines, the UK Department of Industry could probably match this figure in regional development, selective assistance and training grants, but it is believed to have offered only between 30 and 35 per cent

The Scottish Development Agency and the Scottish Economic Planning Department would dearly like to see Nippon Electric come to Scotland to augment the two U.S. companies already making microchips there, Motorola and National Semiconductor.

A joint delegation from the two bodies is likely to travel to Japan to see Nippon Electric shortly to try to persuade the company that Scotland has advantages in infrastructure and the availability of trained labour that outweigh the financial advantages of going to the

Irish Republic.
They will be showing Nippon Electric a tax model prepared by the Scottish Development Agency for the Commons Select Committee on Scottish Affairs, which is investigating industrial incentives.

Based on an electronics investment similar in size and character to that proposed by Nippon Electric, it shows that, by taking advantage of stock reflet and capital allowances, a new company need not pay corporation tax for four to five

Carter warns on Mid-east

BY DAVID BUCHAN IN WASHINGTON

PRESIDENT CARTER has issued a blunt threat to veto in the UN Security Council any West European initiative on Palestinian self - determination which would undermine the U.S. peace mediation based on the 1978 Camp David accords.

But he coupled his warning, made in a television interview broadcast yesterday, with the hope that such a clash could be avoided.

He predicted the Europeans would not act "for the next couple of weeks," until they all met at the Western summit in Venice. Before that the U.S. would get the stalled Israeli-Egyptian talks moving again. M. Jean Francois-Poncet, the

French Foreign Minister, said after meeting his U.S. counter-part. Mr. Edmund Muskie, in Washington last week, that the European Community countries were still considering a Mid-

If this materialised, it would lution 242 to deal with Palestinian political rights. Any such move would involve Britain has no role in the peace talks which, along with France, is a but has a great stake in Middle permanent member of the East stability and oil security. Security Council.

and the present form of UN

Thes U.S. strategy has been to build on the resolution's help-fully vague language the detailed edifice of its Camp David agreements.

Mr. Carter said the Palestinian autonomy talks were down to the "nitty gritty" and the issues clearly defined. Without very much more delay, we will be back at the negotiating table."

The President's unusually strongly-worded statement may contain an element of elect he last few days the Foreign

tioneering, addressed to the sign that the U.S. takes seriously the frustration in Europe, which

John Wyles writes from Mr. Carter said the U.S. Brussels: Mr. Carter's warning would block anything which tampered with "the sanctity of pean capitals as unnecessary pean capitals as unnecessary jumping at shadows.

There have been a lot of second thoughts in London, Paris and Bonn since Mr. Muskie made U.S. opposition to any European move which might cut across the Camp David process abundantly clear during his talks with NATO governments three weeks ago. Previously, Lord Carrington. UK Foreign Secretary, and one of the prime movers behind the EEC discussions, had not ruled out an initiative which went against American wishes. But in

Office has been talking about probably supplement UN Reso- Jewish vote. But it is also a the overwelming need "to carry our allies with us " in launching any attempt to break the Middle East deadlock

Britain and West Germany are reluctantly coming to the conclusion that the EEC will largely have to stay its hand until after the American presidential elections.

The EEC's obvious reluctance confront the U.S. partly reflects a desire to avoid causing any more fractures to an Atlantic alliance whose cohesion on Afghanistan, Iranian sanc-tions and the Olympic Games boycott has been much less than complete.

David Lennon writes from Tel Aviv: Israel has welcomed President Carter's declaration. Mr. Yitzhak Shamir, the Foreign Minister, said last week that any initiative the entire European

more accurate figure for the

real wage reduction in the U.S.

would be 2 to 3 per cent allow-ing for over weighting of

housing costs in the U.S. con-

The large fall in real wages in

the U.S., and the importance of

the American economy in total

OECD output, has depressed the

weighted average of manufac-turing earnings in the whole of the 24-nation OECD. This is

running at about 10 per cent

above a year ago compared with

the average annual increase in

OECD consumer prices of 13 per

This figure has been quoted by Sir Geoffrey as showing that

THE LEX COLUMN

Demergers: U.S. experience

production again, and is giving a serious consideration to the

just a gleam in the eye of jaded entrepreneurs. The Government has still to disclose what changes it proposes to make in the Finance Bill to reduce the tax bias against splitting up a business. In the U.S., however, some useful case histories are already being written.

Take IU Infernational, for instance, which late last year spun off its shipowning business to its shareholders as an independent public company. The new company now trade at around \$6, and HJ's own share price does not seem to have been adjusted down to reflect the disposal. So much for the efficient-market theorists.

IU is now going one step further with a cunning scheme to sell its 58.1 per cent shareholding in Canadian Utilities to. Atco, a Canadian industrial housing and resources business. As the first step in this transaction. Atco has made a tender offer to all IU shareholders for up to 16.2m of their shares at \$17 each. If that succeeds, it will then hand these shares over to IU (which will pop them into its treasury) in exchange for the stake in Canadian Utilities. The short term impact on IU's earnings per share is spectacular: on a pro forma basis, last year's fully diluted figure would have been about two-fifths higher after adjusting for the sale. IU's shares have risen a third to \$164 in the last few

Ambitious

Meanwhile over in Culver city, shareholders in MGM approved on Friday a plan to split the group into two separately quoted parts—MGM Grand Hotels and Metro-Goldwyn-Mayer Film Co. During the parts of the parts of the parts of the parts of the series were series and the se past six years, MGM has built up its hotel and gaming activities, which now account for over half its income, and has cut back film production to only a handful of movies a year.

But it now wants to step up cent-in the share price.

idea of returning to the distribution business. Setting up an independent film company will, it thinks, make it easier to the success of their own efforts. Both sides of the existing business have ambitious expansion plans: after the split, each side will be able to make its own financing decisions irres-pective of the requirements of the other, and MGM stockholders can make up their own minds about which side of the business to back. Their existing shares have certainly performed a lot better than the market averages since the plan was

foreshadowed last November. The demerger buffs are not having it all their own way, however. W. R. Grace caused stir last autumn with an announcement that it was looking into the possibility of splitting report, and although any final decision is still a long way off, the chance of Grace being broken up into half a dozen different companies now seems less than it did a few months

One problem which would arise with such a split would be about how to allocate and company. There is also concern about possible personnel problems—Grace has a hig central staff in New York, and does not think that all its employees would be happy to work for a smaller business.

Frustration

Send today for this

beautiful bell made in the

Rhymney Valley by Stuart Crystal.

We are offering a limited

number Free to companies

who want to know

management's frustration with net worth of only £7.2m, making the stock market, and Grace a rights issue by South West of would only contemplate a radi any size unlikely. Amax's loss cal upheaval if it could be con- link with the company may fident that the result would be prove a key factor at that

way, Grace might consider idea of permitting a public minority in its natural resources division. This would give wel-come visibility to a business attract key personnel with july which contributed about a third stock options related solely to of first-quanter earnings and the success of their own efforts, which, Grace must coyly, which now be worth not all that in less than the \$1.7bn capitality-

Tin spin-off

While the issue of £2 in wor of shares in South West Co solidated Minerals, a subsidia of Dundenian, provide pickir for the stags, the longer to outlook is less clear. Com mining is more fraught wi complications than is oil pipper undertaken up to now is stage. Even if the results are itself up. But the idea was not positive there may be major mentioned in the recent annual headaches in obtaining ful planning permission for three new mines.

The parent company, Dun donian, has spent Lim so far or exploration and the captal raised should prove sufficient to complete the fessibility for Perhaps it is a gesture of confidence that Dundonian, which will have contributed only 20 per cent of the costs, is holding refinance the large lines of attractively cheap debt which are now secured on the holding equity. By comparison, when Berkeley Exploration was floated off in February, ECA retained only 30 per cent of the shares.

Dundonian's large bolding could prove a constraint #-it comes to a go-ahead in wo or so of capital expenditure would be required. Even with The idea of a split seems the acquisition of Algrey to have stemmed largely from Developments, Dundoutan has a

World pay 'matching inflation'

countries apart from the U.S. and Canada, says the Parisbased Organisation Economic Co-operation and Development

. This contrasts with statements during the last fortnight by Sir Geoffrey Howe, the Chancellor, that Britain is

Pay rises in excess of the inflation rate in other countries have, however, largely been the industrial country that has not They have been much lower several percentage points belthan after the last major the rate of price increases." increase in oil prices in 1973-74. Average earnings in the UK show that experience differs have been growing faster than sharply between countries.

factor behind the recent acceleration in the annual rate of retail price inflation to nearly 22 per cent, the highest in the industrialised world.

In speeches and interviews emphasising wage restraint, Sir Geoffrey has been developing the theme that workers in most almost the only industrialised other industrialised countries nation where wages are still are accepting cuts in real in-rising in line with consumer comes in this year's wage bargaining. He told the Commons last

> of productivity gains. accepted a rate of pay increases several percentage points below However, the OECD figures

PAY INCREASES are keeping inflation for most of the last two These figures show that wages up with or even exceeding years. Since output has been in real terms—allowing for inflation in most industrialised stagnant this has been a key tion—are growing at a rate of up to 2 per cent to 3 per cent a year in the OECD area's best performing economies, West Germany and Japan.

> In most Continental countries wages are either keeping pace with inflation or are keeping ahead of price rises by up to per cent. Real wage cuts have been

accepted in Switzerland and the Netherlands, as well as in the J.S. and Canada. In the U.S., where consumer

month: "We are almost the only prices are growing at an annual rate of about 14 per cent but manufacturing wages by only 7 to 8 per cent, there have been real cuts in wages of 6 to 7 per cent on the basis of what is largely regarded as a mislead-

in the whole OECD area earnings are running at 3 per cent. on average, below prices

Former civil servant attacks monetary curbs

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

unlikely to have a rapid enough present Government's policy impact on wage bargaining was can be sustained. The social Barnes, a former Permanent Secretary at the Department of it is effective in controlling centre of Government policymaking during the trade union confrontations of the late 1960s and early 1970s.

"It is very doubtful whether collective bargaining will re-spond quickly, and the damaging conflict (of the past decade) between trade union power and Government policy is likely to continue," says Sir Denis in a book published yesterday.

issued yesterday by Sir Denis and economic consequences may be judged unacceptable before Employment who was at the inflation. If so, the Government may be unable to evade the problem which has faced its predecessors and may feel compelled to influence or inter-

fere with collective bargaining." These views, which will be

ment's monetary policies are questionable for how long the chairman of the Manpower Ser- Sir Denis said yesterday.

His book, written jointly with Eileen Reid, a researcher at his Policy Studies Institute, is for the most part extremely restrained and discreet. It is at its most critical when dealing any more successful in dealing with Mr. Edward Heath's period as Prime Minister.

"I was generally surprised by privately supported by several the degree of governments' Covernments and Trade current senior civil servants, refailures to get on with trade Unions. The British Experience flect several years of frustration unions; but I was most sur- 1964-79. By Denis Barnes and at the Department of Employ prised by Heath's misunder Eileen Reid. Policy Studies

A WARNING that the Govern- "On the face of this it is 1973. He later became the first could do deals with the unions,"

He sees no change in the basic industrial conflicts. in spite of differing economic circumstances, and warns: "It seems unlikely that the present Government (or a successor Labour Government) will be with the trade union problem than the Governments of Heath, Wilson or Callaghan."

Governments and Trade ment, where Sir Denis was perstanding of what could be Institute and Heinemann Educa-manent Secretary from 1968 to achieved and his belief that he tional Books. £12.50.

Labour moderates' hopes revive

BY RICHARD EVANS, LOBBY EDITOR

tensely relieved that the special one-day conference on Saturday was not more openly divisive, believed yesterday it could even have signalled a turning point in the fightback for control of the party by the moderate

On the surface the Wembley conference appeared to have seen another significant step by the Left in its campaign for a more socialist programme, with the overwhelming acceptance by over 5m card votes to 6,000 of a Left-oriented policy state-

But moderate leaders, including Mr. James Callaghan, the party leader, found more significant the signs of increased concern, particularly among trades union leaders, at the deep

BY RUPERT CORNWELL IN ROME

the Italian Prime Minister, is

helped a fellow Christian Demo-

crat's son to escape arrest on

-It was clear last night that

an 11-9 vote by a Parliamentary

committee of inquiry absolving

the Prime Minister of blame had nothing to still the uproar

Cossign had aided the flight of.

Marco Donat-Cattin, son of Sig. Carlo Donat-Cattin; one of

Sig __ Donat-Cattin __ resigned

from his post as Vice-President

of the Christian Democrats late

on Saturday night, shortly after the committee had absolved

both himself and the Prime

But his gesture appears to

have come too late to close an

episode which has not only cast

a shadow over the forthcoming

most influential

terrorist charges.

Italy's

politicians,

Minister.

SIG. FRANCESCO COSSIGA, collapse of the Government.

under increasing pressure to increasingly successful cam-

resign over allegations that he paign against terrorism, and

the Prime Minister of blame allegations that, on the basis of had nothing to still the uproar his knowledge of top secret caused by suggestions that Sig. police documents, he had

Linea

Sandelo.

regional elections next Sunday, is said to have had no previous Government but could lead to an early contact for two years—that the outcome.

party, and confirmation that self with maximum freedom of the Left is likely to have its major constitutional proposals rejected at the autumn confer-

leadership and the Parliamentary party would retain the right to draft the manifesto, and it is this issue that the key battle will be fought. The Left he wound up the conference, will demand that the manifesto Mr. Benn made clear the should be based on conference acceptance of the policy state. decisions and drafted by the National Executive Committee. They now regard the Wembley document as party policy as it was accepted by the necessary two-thirds majority.

Mr. Callaghan, who yesterday described the conference as well worth while, adopted the tactic of virtually ignoring all the unacceptable parts of the

New pressure on Cossiga to go

It has also clouded Italy's

poisoned relations between

Christian Democrats and Com-

munists to a degree not seen

With its decision, the com-

mittee cleared Sig. Cossiga of

tipped off Sig. Donat-Cattin that

his son was being sought by

investigating magistrates as a

leader of the Prima Linea

(Front Line) ultra-left terrorist

The accusations were con-

tained in a confession made to

Turin magistrates by a cap-

terrorist.

tured and self-confessed Prima

The Sandelo family

Roberto

word to his con-with whom he resign, so precipitating another

is said to have had no previous Government crisis of uncertain

SOME Labour Party leaders, in- divisions apparent within the policy statement. leaving him-In contrast to the polite but

cool reception given to Mr. tion of whether he intends to retire from the leadership in the autmn-Mr. Anthony Wedgwood Benn was given a rapturous standing ovation when

Mr. Benn made clear that acceptance of the policy statement would involve more public ownership of industry, renationalisation without compen-sation of assets-sold by the Conservatives, the repeal of the Employment Bill now before Parliament, anti-Common Mar ket legislation and the abolition of the Lords.

Conference reports, Page 6; Politics today, Page 18

senators so request.

for re-examining the case.

Weather

UK TODAY RAIN spreading from W. London, S.E. and E. England, Midlands Cloudy, light rain. Max 17-18C (63-64F).

Channel Isles, S. and S.W. England, S. Wales
Rain, hill and coastal fog.
Max. 18-17C (61-63F). N. Wales, I. of Man, N. Ireland Rain. hill and coastal fog. Max. 14-15C (57-59F).

N.W. England, Lakes, S.W. and N.W. Scotland, Glasgow, Cen. Highlands, Argyll Starting dry, rain and hill fog later. Max. 14-15C (57-59F). Cent. N. and N.E. England, Borders, Edinburgh, Dundee Cloudy, Max 15-16C (59-61F)

Shefland Mostly bright, perhaps rain later. Max. 12-14C (54-57F).

Rest of Scotland, Orkney,

WORLDWIDE Y'day middayl C °F But the committee split exactly on party lines in its verdict and the majority for acquittal fell far short of the four-fifths (or 16-4) decision needed for the case to be shelved for good.
Instead, it could be re-53 Milan 53 Moscow 54 Munich 61 Naples 54 Nwcstl 66 Nicesia 68 Nicesia 68 Oporto 52 Oslo 59 Paris 68 Prague 59 Reykiyk, 53 Royles opened and brought before both houses of the Italian Parliament if a minimum of onethird (or 318) of deputies and The Communists, who have 285 deputies and senators, have left little doubt that they intend to press for further elucidation. They have been joined by independent Left-wingers and the radicals, as well as by the extreme Right wing MSI. thus already ensuring a majority are friends of the Donat-Cattins. At this point, it is according to Sandelo's con-widely forecast, Sig. Cossign would probably feel obliged to

C-Cloudy F-Feir Fg-Fog: S-Sunny SI-Slast Sn-

Outlook: Rain; dry periods in S.E. England.

the benefits of setting up business in our Valley. we commissioned a limited edition of the bell which has historical connections with the Valley. For full details on the benefits of setting up your: business in the Rhymney Valley, please complete the coupon and forward to:--Mr. Martin Beymon, Room 101, Chief Executive's Department. Rhymney Valley District Council, SUCCESSELI Council Offices. Hengoed, Mid Glam, CF8 7YB. HELP Please attach company letterhead. Due to limited numbers; the bell offer is only available to directors.